

This appendix describes all the aspects of configuration, status and detail view.

All items are also available as help text in smoke control touch screen.

## Key to the signatures:



### **CONFIGURATION**

The icon for configuration indicates where it is possible to configure. All connected components (motors, break glass units, keypads, weather station etc.) as well as motor lines, motor groups and smoke zones are to be configured.

The smoke ventilation panel comes with a factory set PIN for access level 3. To be able to configure the PIN shall be entered. See chapter about 'Log in' in the installation instruction.



### **STATUS / SHOW DETAILS**

The status icon indicates the items that cannot be configured. These items are shown in order to provide information about the type of motor, type of input, type of output, the current opening degree etc



### **OPERATE**

The Operate icon indicates the items where commands can be given

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## Configuration

### 4 Motor line [ALL]

PARAMETER:	DESCRIPTION:
<b>16 Discover on MotorLink®</b>	By pressing 'Discover MotorLink®' all the window motors and locking motors (WMBs) on all MotorLink® outputs are discovered. If no errors are found, this number will be equivalent to the actual number of connected motors and locking motors (WMBs). 

## Configuration

### 4 Motor line [1..13]

PARAMETER:	DESCRIPTION:	
<b>16 Motor type</b>	<p>Shows the type of the actual motor output.</p> <p><b>OPTIONS:</b></p> <ul style="list-style-type: none"> <li>None</li> <li>MotorLink®</li> <li>±24V motor</li> </ul>	
<b>17 Expected no. of motors</b> Displayed if motor type = MotorLink®	<p>Specify the number of motors that are connected on this motorline (except locking motors (WMBs)) or if there are magnetic clamps. Choose between:</p> <p>None = no motors on the motorline, 1 = one motor (1 x -1), 2 = two motors (2 x -2), 3=three motors (3 x -3), 4=four motors (4 x -4).                      Magnetic clamp = the output has voltage until it is triggered by alarm.                      Not set = factory setting.</p> <p>'Discover' (is used in two situations):</p> <ol style="list-style-type: none"> <li>1. When the touchscreen informs that there is a discrepancy between the specified number of motors and the detected number of motors. Press 'Discover' to discover the number of connected motors on the line. The number will be displayed and the number can now be compared to the entered number of motors.</li> <li>2. When the cable connection has been changed, if a motor has been changed or the number of motors has been changed.</li> </ol> <p><b>OPTIONS:</b></p> <ul style="list-style-type: none"> <li>None</li> <li>1</li> <li>2</li> <li>3</li> <li>4</li> <li>Magnetic clamp</li> <li>Not set</li> <li>Discover</li> </ul> <p><b>Factory default value:</b> Not set</p>	
<b>60 No. of found motors</b> Displayed only if the motor configuration does not correspond with the discovered motor status.	<p>Shows the number of motors detected on the motor line.</p>	

<p><b>19 Motor configuration</b> Displayed if motor type = ±24V motor</p>	<p>Choose between: None = no motors connected on the motor line. No cable monitoring = the motors on the line has no cable monitoring. 3 wire cable monitoring = with 3 wire cable monitoring (notice: the type is to be set in the next step). Magnetic clamp = the output has voltage until it is triggered by alarm. Magnetic clamp, 3 w. monitoring = magnetic clamp and cable monitoring. Not set = factory setting.</p> <p><b>OPTIONS:</b> None No cable monitoring 3 wire cable monitoring Magnetic clamp Magnetic clamp, 3 w. surveillance Not set Pyrotechnic gas generator Alarm output</p> <p><b>Factory default value:</b> Not set</p> 
<p><b>79 Wire cable check type</b> Displayed if 3 wire cable monitoring</p>	<p>Specify the type (WSA 423 or WSA 510) of the 3-wire cable check end module.</p> <p><b>OPTIONS:</b> Diodes (WSA 432) 10kOhm resistors (WSA 510) 10kOhm resistors, simple (WSA 510) None</p> <p><b>Factory default value:</b> 10kOhm resistors (WSA 510)</p> 
<p><b>66 Stroke time</b> Displayed if motor type = ±24V motor</p>	<p>Specify the time it takes the motor to run from fully closed position to fully open.</p> <p><b>Factory default value:</b> 60 s</p> 
<p><b>21 Motor group</b></p>	<p>Specify the number of the motor group to which the motorline is to be associated with. . One or more motor lines can be associated to the same motor group. All the motor lines in the group will be operated at the same time on the break glass unit/keypads of the group.</p> <p><b>Factory default value:</b> None</p> 
<p><b>18 Expected no. of locking motors</b> Displayed if motor type = MotorLink®</p>	<p>Specify the number of locking motors (WMBs) that are connected on the motor line. If the number discrepancy the detected number a hardware error is displayed.</p> <p><b>OPTIONS:</b> None 1 2 Discovering...</p> <p><b>Factory default value:</b> None</p> 
<p><b>61 No. of found locking motors</b> Displayed only if the motor configuration does not correspond with the discovered motor status.</p>	<p>Shows the actual number of locking motors (WMBs) detected on the motor line.</p> 

<p><b>37 Manual speed</b> Displayed if motor type = MotorLink®</p>	<p>Specify the opening speed that the motor shall run at when operated manually on a keypad. The speed is a percentage of the max speed of the motor.</p> <p><b>Factory default value:</b> 75%</p>	
<p><b>38 Auto. speed</b> Displayed if motor type = MotorLink®</p>	<p>Specify the opening speed that the motor shall run at when automatic comfort ventilation. The speed is a percentage of the max speed of the motor.</p> <p><b>Factory default value:</b> 30%</p>	
<p><b>40 Manual command - auto. off period</b></p>	<p>Specify for how long the automatic/comfort priority is to be ignored after a manual action has been done e.g. an opening on the keypad.</p> <p><b>Factory default value:</b> 30 min.</p>	
<p><b>43 Retry during alarm</b></p>	<p>Specify if the motors are to be reactivated for 30 minutes during a heat / smoke situation. Function as specified in EN12101-9, 5.2.1.5.</p> <p><b>Factory default value:</b> No</p>	
<p><b>71 Max. unexpected overcurrent</b> Displayed if motor type = MotorLink®</p>	<p>Specify the number of times an overcurrent must be detected before the 0%-point of the motor is updated. When the motor position reaches fully open or fully closed the 'unexpected breaks' counter is reset. If the value is set to 0, the 0%-point will never be changed. It is recommended to set the value to 0 after the correct 0% point (closed) is found.</p>	
<p><b>90 Max. unexpected overcurrent (motor)</b> Displayed if motor type = MotorLink®</p>	<p>Specify the number of times an overcurrent must be detected before the 0%-point of the motor is updated. When the motor position reaches fully open or fully closed the 'unexpected breaks' counter is reset. If the value is set to 0, the 0%-point will never be changed. It is recommended to set the value to 0 after the correct 0% point (closed) is found.</p> <p><b>Factory default value:</b> 0</p>	
<p><b>92 Sequential control type</b></p>	<p>Configure the sequential control type None, Open or Close. When Open or Close is selected the sequential control becomes active. The parameters 'Position limitation', 'Invert' and 'Position logic' define the conditions under which the constrained motor line can move beyond the defined limitation.</p> <p><b>Factory default value:</b> None</p>	
<p><b>93 Sequential control position limit</b></p>	<p>Configures the position limitation when sequential control is active.</p> <p><b>Factory default value:</b> 0%</p>	
<p><b>102 Sequential control position limit</b></p>	<p>Configures the open / close position limitation when sequential control is active.</p> <p><b>Factory default value:</b> Closed 0%</p>	

<p><b>94 Sequential control with</b></p>	<p>Configures what the Motor line is to control together with. Motor Line, Local input, KNX input, BACnet input or a delay timer.</p> <p><b>Factory default value:</b> Motor line</p>	
<p><b>95 Sequential control with no</b></p>	<p>Configures with which number the sequential control should work.</p> <p><b>Factory default value:</b> -</p>	
<p><b>96 Sequential control position logic</b></p>	<p>Configures if the sequential control is active if position is greater than or equal or less than or equal.</p> <p><b>Factory default value:</b> Greater than or equal</p>	
<p><b>97 Sequential control position</b></p>	<p>Configures the sequential control position threshold to compare the actual position of the controled motor line with.</p> <p><b>Factory default value:</b> 0%</p>	
<p><b>103 Sequential control position</b></p>	<p>Configures the sequential control open / close position threshold with which the actual position of the sequential control motor line is compared with.</p> <p><b>Factory default value:</b> Closed 0%</p>	
<p><b>98 Sequential control invert</b> Displayed only if relevant</p>	<p>Configures if the state of the control input should be inverted.</p> <p><b>Factory default value:</b> No</p>	
<p><b>99 Sequential control max. wait time</b></p>	<p>Configures the maximal time a command is pending due to sequential control. If the timer runs out the window will continue its movement.</p> <p><b>Factory default value:</b> 0 s</p>	

## Configuration

### 3 Motor group [1..13]

PARAMETER:	DESCRIPTION:	
16 Controlling smoke zone	Specify the number of the smoke zone that controls the motor group.  <b>Factory default value:</b> None	
31 Comfort open position	Specify the position that is used in the event, when a 'comfort-open' command is sent to the motor group.  <b>Factory default value:</b> 15%	
43 Comfort open close time	Specify an optional time out to close the windows after a comfort open event. If 0 is specified the windows will not be closed automatically.  <b>Factory default value:</b> 0 s	
36 Use 'safety' from smoke zone	Specify is the 'safety' signal from the smoke zone should be used in the motor group.  <b>OPTIONS:</b> No Yes  <b>Factory default value:</b> Yes	
37 Wind directions, where to close during alarm	Specify the wind directions where the windows in the motor group should close during wind dependant heat & smoke ventilation. The direction interval is $\pm 7^\circ$ around the shown direction.  <b>OPTIONS:</b> 0° 15° 30° 45° 60° 75° 90° 105° 120° 135° 150° 165° 180° 195° 210° 225° 240° 255° 270° 285° 300° 315° 330° 345°  <b>Factory default value:</b> None	

## Configuration

### 5 Break glass unit [ALL]

PARAMETER:	DESCRIPTION:
<b>17 Bus topology is ring</b>	<p>Specify if the bus topology of the break glass unit bus is closed (Yes) or not closed (No). If the setting is set to 'Yes' an error message will appear if the ring is broken.</p> <p><b>OPTIONS:</b> No Yes</p> <p><b>Factory default value:</b> Yes</p> 

## Configuration

### 5 Break glass unit [1..30]

PARAMETER:	DESCRIPTION:	
35 Device type	<p>Device type</p> <p><b>OPTIONS:</b>                      WSK 501/2                      WSK 503/4                      Unknown</p>	
16 Serial number	<p>Shows the serial number for the connected break glass unit. The serial number is unique for this break glass unit and the serial number is also stated on the label of the break glass unit.</p>	
17 Associated smoke zone	<p>Specify the smoke zone which the break glass unit shall operate.</p> <p><b>Factory default value:</b> None</p>	
31 Use comfort inputs in smoke zone	<p>Specify if the comfort inputs should be associated with the smoke zone.</p> <p><b>OPTIONS:</b>                      No                      Yes</p> <p><b>Factory default value:</b> Yes</p>	
23 Comfort motor group	<p>Specify which motor group/groups that comfort keypad/-pads shall control.</p> <p><b>Factory default value:</b> None</p>	
28 Br.glass unit+sensor one smoke zone	<p>Specify if there is connected smoke sensor to the break glass unit and also specify if the smoke detector shall release the same smoke zone or another smoke zone.</p> <p>In case where ex. the break glass unit of the smoke zone shall release the opening of the windows in the facade and the smoke detector shall release the opening of the roof windows, the function is set to 'Other smoke zone' (it/they are selected afterwards).</p> <p><b>OPTIONS:</b>                      Not used                      Same smoke zone                      Other smoke zone</p> <p><b>Factory default value:</b> Not used</p>	
29 Smoke sensor associated with smoke zone	<p>Specify the smoke zone, that the break glass unit shall control.</p> <p>Displayed only if smoke detector is assigned to specific smoke zone(s)</p> <p><b>Factory default value:</b> None</p>	
25 Unit beep 1 min. for locating	<p>Specify if the break glass unit shall beep 1 minute to locate unit when configuration. The buzzer will beep for 1 min. or until the reset button in the break glass unit is pressed.</p>	

<p><b>24 Delete this unit</b></p>	<p>Specify if the this break glass unit shall be deleted from the overview of the break glass units. If the break glass unit is no longer in use or are replaced with a new break glass unit, the break glass unit shall be removed. Also remove cable connection to the break glass unit, otherwise the break glass unit will be re-detected and assigned with the first available number on the overview.</p>	
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## Configuration

### 2 Smoke zone [ALL]

PARAMETER:	DESCRIPTION:	
<p><b>20 High temperature threshold</b></p>	<p>Shows the high temperature threshold for generating error and activate smoke zone(s).  <u>Factory default value:</u> 72°C</p>	
<p><b>22 Target smoke zones</b></p>	<p>Specify which smoke zone(s) a high temperature error shall control.  <u>Factory default value:</u> None</p>	
<p><b>23 Target smoke zone function</b></p>	<p>Specify which command a high temperature error in the panel should use in the smoke zones. Factory setting = 'Line A'.  <u>Factory default value:</u> None</p>	

## Configuration

### 2 Smoke zone [1..13]

PARAMETER:	DESCRIPTION:	
<b>25 Reset higher priority than break glass unit (Line A)</b>	Specify if a reset should have higher priority than a triggered break glass unit (Line A alarm).  <b>OPTIONS:</b> No Yes  <b>Factory default value:</b> No	
<b>26 Buzzer active during alarm</b>	Specify if the break glass unit shall buzz during alarm.  <b>OPTIONS:</b> No Yes  <b>Factory default value:</b> Yes	
<b>35 Controlled smoke zone</b>	Specify which smoke zone / zones that this smoke zone should control.  <b>Factory default value:</b> None	
<b>36 Function in target smoke zone</b> Displayed only if the smoke zone is linked to one or more smoke zones.	Specify which function this smoke zone should apply to the target smoke zone(s). Also specify if the controlling smoke zone are to reset the controlled smoke zone.  <b>OPTIONS:</b> - Line A Line B Line C Line D Line E Line F  <b>Factory default value:</b> None	
<b>39 Error generates alarm</b>	Specify if an error in the smoke zone should trigger a smoke alarm in the smoke zone.  <b>Factory default value:</b> No	
<b>43 Slave 1 of this smoke zone</b> Displayed only if relevant	1. First specify in which 20A section the slave smoke zone is placed. 2. Then specify which smoke zone that are to be slave. Local inputs for slave smoke zones will be sent to the master. The smoke status will be sent to the selected slave smoke zone.  <b>Factory default value:</b> None	
<b>44 Slave 2 of this smoke zone</b> Displayed only if relevant	1. First specify in which 20A section the slave smoke zone is placed. 2. Then specify which smoke zone that are to be slave Local inputs for slave smoke zones will be sent to the master. The smoke status will be sent to the selected slave smoke zone.  <b>Factory default value:</b> None	

<p><b>45 Slave 3 of this smoke zone</b> Displayed only if relevant</p>	<p>1. First specify in which 20A section the slave smoke zone is placed. 2. Then specify which smoke zone that are to be slave Local inputs for slave smoke zones will be sent to the master. The smoke status will be sent to the selected slave smoke zone.</p> <p><b>Factory default value:</b> None</p>	
<p><b>46 Slave 4 of this smoke zone</b> Displayed only if relevant</p>	<p>1. First specify in which 20A section the slave smoke zone is placed. 2. Then specify which smoke zone that are to be slaveLocal inputs for slave smoke zones will be sent to the master. The smoke status will be sent to the selected slave smoke zone.</p> <p><b>Factory default value:</b> None</p>	
<p><b>19 Line B (smoke detector) smoke opening pos.</b></p>	<p>Specify the opening percentage to which the motors shall open, when line B (e.g. smoke detector) is triggered. 100% = the windows will open fully when triggered. 0%=the windows will close fully when triggered.</p> <p><b>Factory default value:</b> 100%</p>	
<p><b>68 Use comfort commands</b></p>	<p>Specify if the comfort commands should control the motor groups of this smoke zone.</p> <p><b>OPTIONS:</b> No Yes</p> <p><b>Factory default value:</b> Yes</p>	
<p><b>72 Use comfort commands from slaves</b></p>	<p>Specify if the comfort commands from slaves should control the motor groups of this smoke zone.</p> <p><b>OPTIONS:</b> No Yes</p> <p><b>Factory default value:</b> Yes</p>	
<p><b>69 Wind direction speed threshold</b></p>	<p>Specify the wind speed threshold for wind direction dependant heat &amp; smoke strategy to be used. If the wind speed is lower than this limit when an alarm occurs, the window opening will not be dependant of the wind direction.</p> <p><b>Factory default value:</b> 1.0 m/s</p>	

## Configuration

### 6 Local input [1..26]

PARAMETER:	DESCRIPTION:	
<b>16 Input type</b>	Shows the type of the selected input.  <b>OPTIONS:</b> None Smoke detector Binary 24/48V Binary Binary	
<b>25 Control smoke zones</b>	Specify which smoke zone/zones the input shall control. The input can either control smoke zones or motor groups. When smoke zone is chosen the option for controlling motor groups is lost.  <b>Factory default value:</b> None	
<b>26 Function in controlled smoke zones</b>  Displayed only if the input is linked to one or more smoke zones.	Specify the function that the input applies to the associated smoke zones.  <b>OPTIONS:</b> - Line A Line B Reset Line C Line D Line E Line F Comfort stop Comfort open Comfort close Comfort safety  <b>Factory default value:</b> None	
<b>39 Inactive function in controlled smoke zones</b>  Displayed only if the input is linked to one or more smoke zones.	Specify the function that the input applies to the associated smoke zones, when it becomes inactive.  <b>OPTIONS:</b> - Line A Line B Reset Line C Line D Line E Line F Comfort stop Comfort open Comfort close Comfort safety  <b>Factory default value:</b> None	

<p><b>28 Control motor groups</b> Displayed only if the input is binary</p>	<p>Specify which motor group(s) the input shall control. The input can either control smoke zones or motor groups. When motor groups is chosen the option for controlling smoke zones is lost.</p> <p><b>Factory default value:</b> None</p>	
<p><b>29 Active function in controlled motor groups</b> Displayed only if the input is linked to one or more motor group(s)</p>	<p>Specify the function that the input applies to the associated motor groups when it becomes active.</p> <p><b>OPTIONS:</b> - Open Close Stop Safety Comfort open Comfort step Auto. position Hand position</p> <p><b>Factory default value:</b> None</p>	
<p><b>40 Active position</b></p>	<p>Specify the position that is sent to the motor group with the active function.</p> <p><b>Factory default value:</b> 100%</p>	
<p><b>38 Inactive function in controlled motor groups</b> Displayed only if the input is linked to one or more motor group(s)</p>	<p>Specify the function that the input applies to the associated motor groups, when it becomes inactive.</p> <p><b>OPTIONS:</b> - Open Close Stop Safety Comfort open Comfort step Auto. position Hand position</p> <p><b>Factory default value:</b> None</p>	
<p><b>41 Inactive position</b></p>	<p>Specify the position that is sent to the motor group with the inactive function.</p> <p><b>Factory default value:</b> 0%</p>	
<p><b>31 Short output function</b> Displayed only if the input is linked to one or more motor group(s)</p>	<p>Specify the function that the input applies to the associated motor groups after a short activation of the input.</p> <p><b>Factory default value:</b> None</p>	
<p><b>22 Active state</b></p>	<p>Specify what logical state to use when the input is activated.</p> <p><b>OPTIONS:</b> Off On</p> <p><b>Factory default value:</b> On</p>	

## Configuration

### 7 Local output [1..24]

PARAMETER:	DESCRIPTION:	
16 Output type	Shows the output type of the actual output.  <b>OPTIONS:</b> None Binary output	
26 Output mode	Specify the output mode of the output. When 'Siren' is chosen it is assumed that a alarm signalling device is connected to the output. The siren can be stopped under 'Manual operation'.  <b>OPTIONS:</b> Binary output Siren  <b>Factory default value:</b> Binary output	
17 Controlled by smoke zones	Specify which smoke zones that controls the output. One or more smoke zones can be selected. The logic function that is applied between the smoke zones can be configured.  <b>Factory default value:</b> None	
18 Smoke zone output functions  Displayed only if the output is linked to one or more smoke zones.	Specify the functions in the smoke zones that controls the output.  <b>OPTIONS:</b> - Line A Line B Reset Line C Line D Line E Line F Any line Any error  <b>Factory default value:</b> None	
19 Controlled by motor groups	Specify which motor groups that controls the output. One or more motor groups can be selected. The logic function that is applied between the motor groups can be configured.  <b>Factory default value:</b> None	

<p><b>20 Motor group output function</b></p> <p>Displayed only if the output is linked to one or more motor group(s)</p>	<p>Specify the function in the associated motor groups that controls the output.</p> <p><b>OPTIONS:</b></p> <ul style="list-style-type: none"> <li>Motor line error</li> <li>Closed</li> <li>Not closed</li> <li>High wind speed</li> <li>Safety active</li> <li>Open</li> <li>Alarm</li> <li>-</li> </ul> <p><b>Factory default value:</b> None</p>	
<p><b>21 Logic function</b></p> <p>Displayed only if the output is linked to one or more smoke zones or motor group(s)</p>	<p>Specify the logic function that is applied between the smoke zones or motor groups.</p> <p><b>OPTIONS:</b></p> <ul style="list-style-type: none"> <li>AND</li> <li>OR</li> </ul> <p><b>Factory default value:</b> OR</p>	
<p><b>22 Status when active</b></p> <p>Displayed only if the output is linked to one or more smoke zones or motor group(s)</p>	<p>Specify if an active output result should result in the physical output being 'on' or 'off'. This can be used to invert the output result.</p> <p><b>OPTIONS:</b></p> <ul style="list-style-type: none"> <li>Off</li> <li>On</li> </ul> <p><b>Factory default value:</b> On</p>	
<p><b>23 Time out</b></p> <p>Displayed only if the output is linked to one or more smoke zones or motor group(s)</p>	<p>Specify an optional time out. If the value is higher than 0, the output will be inactive after the specified time. If the value is 0, there is no time out. The factory settings 0 sec.</p> <p><b>Factory default value:</b> 0 s</p>	
<p><b>28 Smoke zone output functions</b></p>	<p>Specify the functions in the associated smoke zones, that controls the siren output.</p> <p><b>OPTIONS:</b></p> <ul style="list-style-type: none"> <li>-</li> <li>Line A</li> <li>Line B</li> <li>Reset</li> <li>Line C</li> <li>Line D</li> <li>Line E</li> <li>Line F</li> <li>Any line</li> <li>Any error</li> </ul> <p><b>Factory default value:</b> None</p>	

## Configuration

### 8 Weather station type

PARAMETER:	DESCRIPTION:	
<b>16 Sensor type</b>	Specify which type of weather station that is connected to the WSA 5MC (S2X3.2). Choose between: None = no sensor. WOW = WOW 201 wind speed sensor and WOW 202 wind direction sensor. WLA = WLA 340 wind speed sensor. WLA 330 and WLA 331 are not configured as weather stations but as a normal local input.  <b>OPTIONS:</b> None WOW WLA 340  <b>Factory default value:</b> None	
<b>22 Pulses/sec. per m/s</b> Displayed when weather station type = WLA 340	Specify the number of pulses per second that corresponds to 1 m/s. If sensor type 'WLA 340' is used the value is 2.  <b>Factory default value:</b> 2	
<b>23 Filter constant</b>	Specify the filter constant (tau) for the wind speed / wind direction. Wind speed and direction exists with two different filtrations. The time constant for the two different filtering's can be set individually.  <b>Factory default value:</b> 5 s	
<b>24 Slow filter constant</b>	Specify the filter constant (tau) for the slow wind speed / slow wind direction. Wind speed and direction exists with two different filtrations. The time constant for the two different filtering's can be set individually.  <b>Factory default value:</b> 10 min.	
<b>25 Use RMS in filter</b>	Specify if root-mean-square (RMS) is used in the filter.  <b>Factory default value:</b> No	

## Configuration

### 11 Connected WSA 5MC [1..30]

PARAMETER:	DESCRIPTION:	
<b>20 No connection to associated WSA 5MC</b>  Displayed only if connection problem to other WSA 5MC sections.	The associated overall control module is not accessible via any of the CAN buses.	

## Configuration

### 11 CAN

PARAMETER:	DESCRIPTION:
<b>16 MC ID</b>	Configures the ID on the CAN bus of the local WSA 5MC.   <u>Factory default value:</u> -
<b>19 CAN bus mode</b>	When more WSA 5MC's are associated, they can exchange information. This way it is possible to make a smoke zone master-slave connection. If the mode is set to parallel, the WSA 5MC module will check that all associated devices are accessible via both CAN1 and CAN2. If not an error will be reported. If the mode is set to independent, it is enough that an associated WSA 5MC is accessible via one of the CAN interfaces.   <u>OPTIONS:</u> Parallel bus Independent buses  <u>Factory default value:</u> Parallel bus

## Configuration

### 12 Network

PARAMETER:	DESCRIPTION:	
<b>27 Restart to use new ip settings</b> Displayed only if relevant	The system must restart to use the new ip settings. When 'yes' is pressed the system will restart.  <u>Factory default value:</u> 10 0 0 1	
<b>23 DHCP</b>	Select 'Yes' to enable DHCP (automatic IP address) for the Ethernet interface (automatic IP address assignment).  <u>Factory default value:</u> Yes	
<b>16 IP address</b> Displayed only if DHCP disabled	Specify the IP address of the section.  <u>Factory default value:</u> 00 00 00 00	
<b>21 Subnet mask</b> Displayed only if DHCP disabled	Specify the subnet mask of the 20A section.  <u>Factory default value:</u> 255 255 255 0	
<b>22 Default gateway</b> Displayed only if DHCP disabled	Specify the default gateway of the 20A section.  <u>Factory default value:</u> 10 0 0 1	
<b>24 IP address</b>	Shows the IP address of the section.  <u>Factory default value:</u> 00 00 00 00	
<b>25 Subnet mask</b>	Shows the subnet mask of the 20A section.  <u>Factory default value:</u> 255 255 255 0	
<b>26 Default gateway</b>	Shows the default gateway of the 20A section.  <u>Factory default value:</u> 10 0 0 1	
<b>17 Power setting</b>	Specify the power settings for the network interface. Auto. = when 230V mains voltage the gate is automatically on. In battery mode, this is disabled to save power. ON = the network connection is always on. OFF = network connection deactivated.  <u>OPTIONS:</u> Auto. On Off  <u>Factory default value:</u> Auto.	
<b>18 Power state network</b>	Shows the actual power state of the network interface.	
<b>19 MAC (upper)</b>	Shows the first three bytes of the Ethernet MAC address.	
<b>20 MAC (lower)</b>	Shows the last three bytes of the Ethernet MAC address.	

## Configuration

### 13 Fieldbus [Module]

PARAMETER:	DESCRIPTION:
<p><b>16 Module type</b></p>	<p>Show the connected field bus module type. Some types of modules need bus power to be detected.</p> <p><b>OPTIONS:</b></p> <ul style="list-style-type: none"> <li>Empty</li> <li>KNX</li> <li>KNX, no bus or ETS</li> <li>Unknown module</li> </ul> 
<p><b>18 Power setting</b></p>	<p>Specify the power settings for the field bus interface. 'Auto' means that the module is powered off if there is no mains power. 'On' means that the module is always on. 'Off' means that the module is always off.</p> <p><b>OPTIONS:</b></p> <ul style="list-style-type: none"> <li>Auto.</li> <li>On</li> <li>Off</li> </ul> <p><b>Factory default value:</b> Auto.</p> 

## Configuration

### 13 Fieldbus, Object [1..13]

PARAMETER:	DESCRIPTION:	
<b>17 Direction</b>	<p>Shows the direction of the field bus link.</p> <p><b>OPTIONS:</b></p> <ul style="list-style-type: none"> <li>None</li> <li>Input</li> <li>Output</li> </ul>	
<b>18 Controlled motor groups</b> Displayed only if object direction in input	<p>Specify which motor group/groups the input shall control. The input can either control smoke zones OR motor groups. When motor group is chosen the option for controlling smoke zones is lost.</p> <p><b>Factory default value:</b> None</p>	
<b>19 Function in controlled motor groups</b> Displayed only if object direction in input	<p>Specify the function that the input applies to the associated motor groups.</p> <p><b>OPTIONS:</b></p> <ul style="list-style-type: none"> <li>-</li> <li>Open</li> <li>Close</li> <li>Stop</li> <li>Safety</li> <li>Comfort open</li> <li>Comfort step</li> <li>Auto. position</li> <li>Hand position</li> </ul> <p><b>Factory default value:</b> None</p>	
<b>21 Controlled by smoke zones</b> Displayed only if object direction in output	<p>Specify which smoke zones that controls the output. One or more smoke zones can be selected. The logic function that is applied between the smoke zones can be configured.</p> <p><b>Factory default value:</b> None</p>	
<b>22 Smoke zone output functions</b> Displayed only if the output is linked to one or more smoke zones.	<p>Specify the functions in the smoke zones, that controls the output.</p> <p><b>OPTIONS:</b></p> <ul style="list-style-type: none"> <li>-</li> <li>Line A</li> <li>Line B</li> <li>Reset</li> <li>Line C</li> <li>Line D</li> <li>Line E</li> <li>Line F</li> <li>Any line</li> <li>Any error</li> </ul> <p><b>Factory default value:</b> None</p>	

<p><b>24 Controlled by motor groups</b></p> <p>Displayed only if object direction in output</p>	<p>Specify which motor groups that controls the output. One or more motor groups can be selected. The logic function that is applied between the motor groups can be configured.</p> <p><b>Factory default value:</b> None</p>	
<p><b>25 Motor group output function</b></p> <p>Displayed only if the output is linked to one or more motor group(s)</p>	<p>Specify the function in the associated motor groups that controls the output.</p> <p><b>OPTIONS:</b></p> <ul style="list-style-type: none"> <li>Motor line error</li> <li>Closed</li> <li>Not closed</li> <li>High wind speed</li> <li>Safety active</li> <li>Open</li> <li>Alarm</li> <li>-</li> </ul> <p><b>Factory default value:</b> None</p>	
<p><b>27 Logic function</b></p> <p>Displayed only if object direction in output</p>	<p>Specify the logic function that is applied between the smoke zones or motor groups.</p> <p><b>OPTIONS:</b></p> <ul style="list-style-type: none"> <li>AND</li> <li>OR</li> </ul> <p><b>Factory default value:</b> OR</p>	
<p><b>28 Status when active</b></p> <p>Displayed only if object direction in output</p>	<p>Specify if an active output result should result in the physical output being 'on' or 'off'. This can be used to invert the output result.</p> <p><b>OPTIONS:</b></p> <ul style="list-style-type: none"> <li>Off</li> <li>On</li> </ul> <p><b>Factory default value:</b> On</p>	

## Configuration

### 16 BACnet IP [Common]

PARAMETER:	DESCRIPTION:	
16 BACnet IP UDP port number	Specify the UDP port for BACnet IP. The standard port is 47808.  <u>Factory default value:</u> 47808	
17 BACnet IP device instance	Specify the device instance of the BACnet IP server.  <u>Factory default value:</u> 1	
18 Actual position COV increment	Specify the COV increment for the actual position input objects.  <u>Factory default value:</u> 1%	
19 Actual max. position COV increment	Specify the COV increment for the actual maximum position input objects.  <u>Factory default value:</u> 1%	
20 Wind speed COV increment	Specify the COV increment for the wind speed input objects.  <u>Factory default value:</u> 0.1 m/s	
21 Wind direction COV increment	Specify the COV increment for the wind direction input objects.  <u>Factory default value:</u> 1°	
22 Register as 'foreign device'	Specify if the 5MC must register as 'foreign device'. When enabled the 5MC will register as 'foreign device'. The registration interval is 1/3 of the 'time-to-live' time.  <u>Factory default value:</u> No	
23 IP address of 'BBMD' Displayed only if Registered as 'foreign device'	Specify the IP address of the 'BBMD'.  <u>Factory default value:</u> 0. 0. 0. 0	
24 BACnet UDP port of BBMD Displayed only if Registered as 'foreign device'	Specify the UDP port of the BBMD. The standard port is 47808.  <u>Factory default value:</u> 47808	
25 Register as 'foreign device' 'Time-to-Live' value Displayed only if Registered as 'foreign device'	Specify the 'Time-to-Live' value. The 5MC will register with an interval of 1/3 of the 'time-to-live' time. If the value is 0 the 5MC will only register once. The 'time-to-live' will be the 'grace period' of 30 seconds.  <u>Factory default value:</u> 60 min.	

## Configuration

### 16 BACnet IP, Object [1..13]

PARAMETER:	DESCRIPTION:	
<b>17 Direction</b>	Shows the direction of the field bus link.  <b>OPTIONS:</b> None Input Output	
<b>18 Control motor groups</b> Displayed only if object direction in input	Specify which motor group(s) the input shall control. The input can either control smoke zones OR motor groups. When motor group is chosen the option for controlling smoke zones is lost.  <b>Factory default value:</b> None	
<b>19 Function in controlled motor groups</b> Displayed only if object direction in input	Specify the function that the input applies to the associated motor groups.  <b>OPTIONS:</b> - Open Close Stop Safety Comfort open Comfort step Auto. position Hand position  <b>Factory default value:</b> 1%	
<b>21 Controlled by smoke zones</b> Displayed only if object direction in output	Specify which smoke zones that controls the output. One or more smoke zones can be selected. The logic function that is applied between the smoke zones can be configured.  <b>Factory default value:</b> None	
<b>22 Smoke zone output functions</b> Displayed only if the output is linked to one or more smoke zones.	Specify the functions in the smoke zones, that controls the output.  <b>OPTIONS:</b> - Line A Line B Reset Line C Line D Line E Line F Any line Any error  <b>Factory default value:</b> None	
<b>24 Controlled by motor groups</b> Displayed only if object direction in output	Specify which motor groups that controls the output. One or more motor groups can be selected. The logic function that is applied between the motor groups can be configured.  <b>Factory default value:</b> None	

<p><b>25 Motor group output function</b> Displayed only if the output is linked to one or more motor group(s)</p>	<p>Specify the function in the associated motor groups that controls the output.</p> <p><b>OPTIONS:</b>                  Motor line error                  Closed                  Not closed                  High wind speed                  Safety active                  Open                  Alarm                  -</p> <p><b>Factory default value:</b> None</p>	
<p><b>27 Logic function</b> Displayed only if object direction in output</p>	<p>Specify the logic function that is applied between the smoke zones or motor groups.</p> <p><b>OPTIONS:</b>                  AND                  OR</p> <p><b>Factory default value:</b> OR</p>	
<p><b>28 Status when active</b> Displayed only if object direction in output</p>	<p>Specify if an active output result should result in the physical output being 'on' or 'off'. This can be used to invert the output result.</p> <p><b>OPTIONS:</b>                  Off                  On</p> <p><b>Factory default value:</b> On</p>	

## Configuration

### 1 Login

PARAMETER:	DESCRIPTION:	
<p><b>18 PIN 3: Configuration</b> (Require min Access level 3)</p>	<p>Specify the PIN code for access to level 3. Level 3 gives access to configuration, see the status and for manual operation.</p> <p><b>Factory default value:</b> ****</p>	
<p><b>21 Log out time-out</b> (Require min Access level 3)</p>	<p>Configures the time-out for an automatic logout. Everytime the display is touched the logout timer is restarted. After the time-out it is needed to log in again.</p> <p><b>Factory default value:</b> 300 s</p>	

## Configuration

### 14 Configuration files, SD [1..24]

PARAMETER:	DESCRIPTION:	
<b>16 Ongoing operation</b> Displayed only if relevant	Appears if the system is in the process of writing / reading the selected configuration file.  <u><b>OPTIONS:</b></u> Idle Saving ... Copying ...	
<b>17 Status</b>	Shows status for the chosen configuration file.  <u><b>OPTIONS:</b></u> File exists Invalid contents No file No disk Unknown error	
<b>18 Time stamp</b> Displayed only if the file exists	Shows the time for the last change in the configuration file.	
<b>19 Command</b> Displayed only if the file exists	Specify if command are to given to manage configuration files.  <u><b>OPTIONS:</b></u> No command Save current Load from file Copy SD to USB Copy USB to SD	

## Configuration

### 15 Configuration files, USB [1..24]

PARAMETER:	DESCRIPTION:	
<b>16 Ongoing operation</b> Displayed only if relevant	Appears if the system is in the process of writing / reading the selected configuration file.  <u><b>OPTIONS:</b></u> Idle Saving ... Copying ...	
<b>17 Status</b>	Shows status for the chosen configuration file.  <u><b>OPTIONS:</b></u> File exists Invalid contents No file No disk Unknown error	
<b>18 Time stamp</b> Displayed only if the file exists	Shows the time for the last change in the configuration file.	
<b>19 Command</b> Displayed only if the file exists	Specify if command are to given to manage configuration files.  <u><b>OPTIONS:</b></u> No command Save current Load from file Copy SD to USB Copy USB to SD	

## Configuration

### 0 System

PARAMETER:	DESCRIPTION:	
22 Language	Specify the language to be used in the touch screen.  <b>OPTIONS:</b> English Danish German  <b>Factory default value:</b> English	
35 Backup time stamp	Shows the time stamp. The time stamp is updated each time the configuration is saved as a backup.	
34 Unsaved changes	Shows if there have been changes to the configuration since the last backup was saved. If so, this value will be 'Yes'.  <b>OPTIONS:</b> No Yes	
23 Configuration command	This option can be used to reset the device to factory default configuration. Save a configuration backup of the actual configuration or restore the configuration backup.  <b>OPTIONS:</b> Reset to factory defaults Load backup Save backup No command	
44 Disk operation Displayed only if relevant	Shows any ongoing operation on the SD card and USB stick.	
45 Copy log	Set this to 'Yes' to copy all log files from the SD card to the USB stick.	
27 Time	Set the time of the internal clock.	
28 Date	Set the date in the internal clock.	
55 Reset service timer (Require min Access level 3)	Sets the service date to the current date.	
56 The interval between service (Require min Access level 3)	Sets the interval between service. After this period is passed a message dialog will be shown and the yellow LED on the break glass units will flash. If the value is set to 0 the service interval function is disabled.  <b>Factory default value:</b> 0 days	

<b>26 LCD rotate view</b>	Specify if the picture on the touch screen should rotate 180 degrees. This can be used in combination with eg. turning the touch screen upside-down to optimise the viewing quality.  <b><u>OPTIONS:</u></b> No Yes  <b><u>Factory default value:</u></b> No	
<b>46 Enable parameter set from network</b>	Enable writing parameter values from ethernet If 'False' it is only possible to read parameter values from ethernet.  <b><u>OPTIONS:</u></b> No Yes  <b><u>Factory default value:</u></b> Yes	
<b>30 Show disabled instances</b>	Specify if disabled / non-existing items should be shown in the overview lists.  <b><u>OPTIONS:</u></b> No Yes  <b><u>Factory default value:</u></b> No	

## Status

### 4 Motor line [1..13]

PARAMETER:	DESCRIPTION:	
<b>67 Status</b>	Shows the status of the motor line.	
<b>60 No. of found motors</b> Displayed only if the motor configuration does not correspond with the discovered motor status.	Shows the number of motors detected on the motor line.	
<b>31 Actual maximum position</b>	Shows the actual resulting maximum opening. This is the lowest value of all limiting inputs.	
<b>32 Actual position</b>	Shows the actual opening of the connected motors.	
<b>61 No. of found locking motors</b> Displayed only if the motor configuration does not correspond with the discovered motor status.	Shows the actual number of locking motors (WMBs) detected on the motor line.	
<b>39 Temp. manual timer</b>	Shows the remaining time of the manual priority timer. If the value is '0', the timer is not active.	
<b>41 Manual grace timer</b> Displayed only if relevant	Shows the remaining time of the manual grace timer. This is a safety feature so after a closing command the window can still be manually operated in a short time. If the value is '0', the timer is not active.	
<b>91 Pyrotechnic gas generator disabled</b>	Set this to test the system without activating the pyrotechnic gas generator on this output. As long as this setting is active an error will be shown on this output.	

## Status

### 3 Motor group [1..13]

PARAMETER:	DESCRIPTION:	
<b>17 Actual smoke position</b>	Shows the actual position with heat and smoke priority set to the motor group.	
<b>41 Alarm delay timer</b> Displayed only if relevant	Shows the delay of the command to the motor lines after an alarm is triggered. 0s (0 sec.) = the alarm command is forwarded with no delay.	
<b>22 Actual status</b>	Shows the actual status of the motor group.  <b>OPTIONS:</b> Motor line error Closed Not closed High wind speed Safety input Open Alarm Input error	
<b>23 Actual maximum position</b>	Shows the actual resulting maximum opening limitation. This is the lowest value of all limiting inputs.	
<b>24 No. of associated break glass units</b>	Shows the number of comfort inputs on break glass units that are associated to the motor group.	
<b>25 No. of associated local inputs</b>	Shows the number of local inputs that are associated to the motor group.	
<b>26 No. of associated motor lines</b>	Shows the number of motor lines that is associated to this motor group.	
<b>34 No. of associated field bus inputs</b>	Shows the number of field bus inputs that are associated to the motor group.	
<b>38 No. of associated BACnet IP inputs</b>	Shows the number of field bus inputs that are associated to the motor group.	
<b>44 Comfort open remaining time</b> Displayed only if relevant	Shows the remaining time of the comfort open.	

## Status

### 5 Break glass unit [ALL]

PARAMETER:	DESCRIPTION:	
18 Ring bus status	Shows the actual status of the break glass unit bus, if it is a closed ring or not.  <b>OPTIONS:</b> No Yes	
19 SHE bus 1 is OK	Shows if bus connection 1 is okay. If there is no break glass units on the connected bus line, or the connection is not used, the status will not be OK.  <b>OPTIONS:</b> No Yes	
20 SHE bus 2 is OK	Shows if bus connection 2 is okay. If there is no break glass units on the connected bus line, or the connection is not used, the status will not be OK.  <b>OPTIONS:</b> No Yes	
21 Bus error	Shows if there is a general error on the break glass unit bus. The is only relevant if the bus topology is set to 'ring'.  <b>OPTIONS:</b> No Yes	

## Status

### 5 Break glass unit [1..30]

PARAMETER:	DESCRIPTION:	
35 Device type	<p>Device type</p> <p><b>OPTIONS:</b>                      WSK 501/2                      WSK 503/4                      Unknown</p>	
16 Serial number	<p>Shows the serial number for the connected break glass unit. The serial number is unique for this break glass unit and the serial number is also stated on the label of the break glass unit.</p>	
21 Device status	<p>Device status</p> <p><b>OPTIONS:</b>                      Alarm                      Reset                      Door switch                      Power line error                      Smoke det. active                      Smoke det. error                      Open key                      Close key                      Move up                      Move down                      Up short                      Down short                      Comm. line error</p>	
36 Status of slave Displayed only if relevant	<p>Status of slave</p> <p><b>OPTIONS:</b>                      -                      Line A                      Line B                      Line C                      Line D                      Line E                      Line F</p>	
22 Connection	<p>Shows if there is connection to the break glass unit.                      Yes = there is connection.                      No = there is no connection.</p> <p><b>OPTIONS:</b>                      No                      Yes</p>	
30 Status of smoke sensor Displayed only if smoke detector is assigned to specific smoke zone(s)	<p>Status of smoke sensor</p>	

## Status

### 2 Smoke zone [ALL]

PARAMETER:	DESCRIPTION:	
<b>16 Slot 1 maximum temperature</b>	Shows the maximum measures temperature since last reset of the value (the value can be reset).	
<b>17 Slot 3 maximum temperature</b> Displayed only if a temperature sensor is present in the slot	Shows the maximum measures temperature since last reset of the value.	
<b>18 Slot 4 maximum temperature</b> Displayed only if a temperature sensor is present in the slot	Shows the maximum measures temperature since last reset of the value.	
<b>19 Slot 5 maximum temperature</b> Displayed only if a temperature sensor is present in the slot	Shows the maximum measures temperature since last reset of the value.	
<b>21 High temperature error</b>	Shows the status of the high temperature error. To reset the error the maximum temperature must be reset.  <b>OPTIONS:</b> No Yes	
<b>24 Target smoke zone output</b>	Shows the actual output that is applied to the target smoke zones.  <b>OPTIONS:</b> - Line A Line B Line C Line D Line E Line F  <b>Factory default value:</b> None	

## Status

### 2 Smoke zone [1..13]

PARAMETER:	DESCRIPTION:	
<b>16 Status (local)</b> Displayed only if the Smoke zone is slave to another smoke zone.	Shows the status of the local smoke zone. Will only be showed if the smoke zone is a slave.	
<b>17 Status</b>	Shows the status of the smoke zone. If the smoke zone is a slave this the status received from the master smoke zone.	
<b>27 Actual smoke pos.</b>	Shows the actual position set point during an alarm situation.	
<b>70 Sampled alarm wind direction</b>	Shows the wind direction sampled when the alarm occurred. 0 = the wind dependant opening is not active. 1-24 = the wind dependant opening is active.	
<b>37 Target smoke zone output</b>	Shows the actual output that the smoke zone applies to the target smoke zones.  <u><b>OPTIONS:</b></u> Line A Line B Reset Line C Line D Line E Line F Comfort stop Comfort open Comfort close Comfort safety Line A error Line B error Line C error Line D error Line E error Line F error Break glass unit error Motor group error Master slave error PSU error PSU warning Weather data error Local 'Safety' System error	

<p><b>38 Break glass unit output</b></p>	<p>Shows the actual status sent to the associated break glass unit(s).</p> <p><b>OPTIONS:</b></p> <ul style="list-style-type: none"> <li>Smoke reset</li> <li>Red LED on</li> <li>Red LED flash</li> <li>Yellow LED on</li> <li>Yellow LED flash</li> <li>Green LED on</li> <li>Green LED flash</li> <li>Buzzer on</li> <li>Buzzer beep</li> </ul>	
<p><b>42 Master for this smoke zone</b> Displayed only if relevant</p>	<p>Shows the master smoke zone for this smoke zone. If it is 'None', then this smoke has no master smoke zone. To associate this smoke zone with a master, configure this smoke zone as a slave smoke in the configuration of the master smoke zone.</p>	
<p><b>43 Slave 1 of this smoke zone</b> Displayed only if relevant</p>	<p>1. First specify in which 20A section the slave smoke zone is placed. 2. Then specify which smoke zone that are to be slave. Local inputs for slave smoke zones will be sent to the master. The smoke status will be sent to the selected slave smoke zone.</p> <p><b>Factory default value:</b> None</p>	
<p><b>44 Slave 2 of this smoke zone</b> Displayed only if relevant</p>	<p>1. First specify in which 20A section the slave smoke zone is placed. 2. Then specify which smoke zone that are to be slave Local inputs for slave smoke zones will be sent to the master. The smoke status will be sent to the selected slave smoke zone.</p> <p><b>Factory default value:</b> None</p>	
<p><b>45 Slave 3 of this smoke zone</b> Displayed only if relevant</p>	<p>1. First specify in which 20A section the slave smoke zone is placed. 2. Then specify which smoke zone that are to be slave Local inputs for slave smoke zones will be sent to the master. The smoke status will be sent to the selected slave smoke zone.</p> <p><b>Factory default value:</b> None</p>	
<p><b>46 Slave 4 of this smoke zone</b> Displayed only if relevant</p>	<p>1. First specify in which 20A section the slave smoke zone is placed. 2. Then specify which smoke zone that are to be slave Local inputs for slave smoke zones will be sent to the master. The smoke status will be sent to the selected slave smoke zone.</p> <p><b>Factory default value:</b> None</p>	
<p><b>63 Slave 1 status (in)</b> Displayed only if relevant</p>	<p>Shows the status (in) received from slave 1 smoke zone.</p>	
<p><b>64 Slave 2 status (in)</b> Displayed only if relevant</p>	<p>Shows the status (in) received from slave 2 smoke zone.</p>	
<p><b>65 Slave 3 status (in)</b> Displayed only if relevant</p>	<p>Shows the status (in) received from slave 3 smoke zone.</p>	
<p><b>66 Slave 4 status (in)</b> Displayed only if relevant</p>	<p>Shows the status (in) received from slave 4 smoke zone.</p>	
<p><b>31 No. of associated break glass units</b></p>	<p>Shows the number of break glass units that are associated to the smoke zone.</p>	

<b>40 No. of associated break smoke sensors</b>	Shows the number of smoke sensors connected to break glass units that are associated to the smoke zone.	
<b>32 No. of associated local inputs</b>	Shows the number of local inputs which are associated to the smoke zone.	
<b>33 No. of associated motor groups</b>	Shows the number of motor groups which have the smoke zone associated.	
<b>34 No. of smoke zone sources</b>	Shows the number of smoke zones which have this smoke zone associated.	

## Status

### 6 Local input [1..26]

PARAMETER:	DESCRIPTION:	
<b>16 Input type</b>	Shows the type of the selected input.  <b>OPTIONS:</b> None Smoke detector Binary 24/48V Binary Binary	
<b>27 Target smoke zone output</b>  Displayed only if the input is linked to one or more smoke zones.	Shows the actual output that the input applies to the smoke zones.  <b>OPTIONS:</b> - Line A Line B Reset Line C Line D Line E Line F Comfort stop Comfort open Comfort close Comfort safety	
<b>32 Target motor group output</b>  Displayed only if the input is linked to one or more motor group(s)	Shows the actual output that the input applies to the motor groups.	
<b>23 State</b>	Shows the actual state of the input.  <b>OPTIONS:</b> Unknown Short circuit Open circuit On Off In reset	

## Status

### 7 Local output [1..24]

PARAMETER:	DESCRIPTION:	
<b>25 Actual output state</b>	Shows the actual state of the output.	
<b>27 Stop the active siren</b> Displayed only if relevant	Turn off the siren. If a new error occurs, the siren will restart.	

## Status

### 8 Weather station type

PARAMETER:	DESCRIPTION:	
<b>17 Status</b>	Shows the status for the weather station.	
<b>18 Wind speed</b>	Shows the actual wind speed. Wind speed and direction exists with two different filtrations. The time constant for the two different filtering's can be set individually.	
<b>19 Filtered wind speed</b>	Shows the actual filtered wind speed. Wind speed and direction exist with two different filtrations. The time constant for the two different filtering's can be set individually.	
<b>20 Wind direction</b> Displayed when weather station type = WOW	Shows the actual wind direction. Wind speed and direction exist with two different filtrations. The time constant for the two different filtering's can be set individually.	
<b>21 Filtered wind direction</b> Displayed when weather station type = WOW	Shows the actual filtered wind direction. Wind speed and direction exist with two different filtrations. The time constant for the two different filtering's can be set individually.	

## Status

### 9 Power supply

PARAMETER:	DESCRIPTION:	
17 Mains status	Shows the status of the main power supply.  <b>OPTIONS:</b> No mains power OK Warning	
36 Battery status	Shows the status of the back-up batteries.  <b>OPTIONS:</b> Error OK Charging error	
18 Back-up batteries voltage	Shows the actual back-up battery voltage.	
19 Power supply voltage	Shows the actual power supply voltage.	
16 Detailed status	Shows the detailed power supply status.	
20 Power supply current	Shows the actual current drawn from the power supply.	
21 Battery temperature	Shows the actual temperature of the back-up batteries.	

## Status

### 11 Connected WSA 5MC [1..30]

PARAMETER:	DESCRIPTION:	
20 No connection to associated WSA 5MC  Displayed only if connection problem to other WSA 5MC sections.	The associated overall control module is not accessible via any of the CAN buses.	

## Status

### 11 CAN

PARAMETER:	DESCRIPTION:	
16 MC ID	Configures the ID on the CAN bus of the local WSA 5MC.  <u>Factory default value:</u> -	
21 CAN 1 connected.	CAN 1 connected.	
20 CAN 2 connected.	CAN 2 connected.	
22 Select CAN for monitoring	The detailed status and error counters will reflect the selected CAN.  <u>OPTIONS:</u> CAN 2 CAN 1	
23 Received frames	Shows the number of received CAN frames.	
24 Transmitted frames	Shows the number of transmitted CAN frames.	
26 Tx queue size (transmission).	Tx queue size (transmission).	
27 Tx discarded (transmission).	Tx discarded (transmission).	
28 Rx discarded (receive).	Rx discarded (receive).	
39 Message pool size	Message pool size	
29 Last error.	Last error.	
30 Receive errors.	Receive errors.	
31 Transmit errors.	Transmit errors.	
32 Rx idle time (receive).	Rx idle time (receive).	
33 Tx idle time (transmission).	Tx idle time (transmission).	
38 CAN Rx Max Queued	Shows the maximum size that the CAN receive queue has had at any time since booting.	
35 CAN ID conflict, CAN1	The CAN ID of this device appears already to be in use on CAN1. Possible reasons: 1: Two devices have been configured with the same CAN ID. 2: The two CAN interfaces of the same device have been connected together, which is not allowed.	

<p><b>34 CAN ID conflict, CAN2</b></p>	<p>The CAN ID of this device appears already to be in use on CAN2. Possible reasons: 1: Two devices have been configured with the same CAN ID. 2: The two CAN interfaces (CAN1 and CAN2) of the same device have been connected together, which is not allowed.</p>	
<p><b>45 Bus error, CAN1</b></p>	<p>It is not possible to communicate on the bus cable connected to CAN1. Could be a cable problem or a defect controller board.</p>	
<p><b>44 Bus error, CAN2</b></p>	<p>It is not possible to communicate on the bus cable connected to CAN2. Could be a cable problem or a defect controller board.</p>	

## Status

### 12 Network

PARAMETER:	DESCRIPTION:	
<p><b>27 Restart to use new ip settings</b> Displayed only if relevant</p>	<p>The system must restart to use the new ip settings. When 'yes' is pressed the system will restart.  <u>Factory default value:</u> 10 0 0 1</p>	
<p><b>23 DHCP</b></p>	<p>Select 'Yes' to enable DHCP (automatic IP address) for the Ethernet interface (automatic IP address assignment).  <u>Factory default value:</u> Yes</p>	
<p><b>16 IP address</b> Displayed only if DHCP disabled</p>	<p>Specify the IP address of the section.  <u>Factory default value:</u> 00 00 00 00</p>	
<p><b>21 Subnet mask</b> Displayed only if DHCP disabled</p>	<p>Specify the subnet mask of the 20A section.  <u>Factory default value:</u> 255 255 255 0</p>	
<p><b>22 Default gateway</b> Displayed only if DHCP disabled</p>	<p>Specify the default gateway of the 20A section.  <u>Factory default value:</u> 10 0 0 1</p>	
<p><b>24 IP address</b></p>	<p>Shows the IP address of the section.  <u>Factory default value:</u> 00 00 00 00</p>	
<p><b>25 Subnet mask</b></p>	<p>Shows the subnet mask of the 20A section.  <u>Factory default value:</u> 255 255 255 0</p>	
<p><b>26 Default gateway</b></p>	<p>Shows the default gateway of the 20A section.  <u>Factory default value:</u> 10 0 0 1</p>	
<p><b>18 Power state network</b></p>	<p>Shows the actual power state of the network interface.</p>	
<p><b>19 MAC (upper)</b></p>	<p>Shows the first three bytes of the Ethernet MAC address.</p>	
<p><b>20 MAC (lower)</b></p>	<p>Shows the last three bytes of the Ethernet MAC address.</p>	

## Status

### 10 Slots [1..5]

PARAMETER:	DESCRIPTION:	
16 <b>Hardware type</b>	Shows the actual hardware type of the module in the slot.	
19 <b>Firmware version</b> Displayed only for 5MC module (Slot 2)	Shows the software version of the board.	
22 <b>Build time</b> Displayed only for 5MC module (Slot 2)	Shows the actual release time and date of the WSA 5MC software.	
20 <b>5PS, 5IO, 5SM, 5S5, 5ML Firmware version</b> Only used in Slot 1,3,4 og 5	Shows the firmware version of the module in the Slot. If the firmware is too old this is shown as an error.	
21 <b>Temperature</b> Displayed only for 5IO module	Shows the actual temperature measured on the WSA 5IO board.	
32 <b>Release candidate</b> Displayed only for 5SM module	Release candidate	

## Status

### 13 Fieldbus [Module]

PARAMETER:	DESCRIPTION:	
16 <b>Module type</b>	Show the connected field bus module type. Some types of modules need bus power to be detected.  <b>OPTIONS:</b> Empty KNX KNX, no bus or ETS Unknown module	
19 <b>ETS application version</b>	Shows the version of the ETS application.	
20 <b>Physical address</b>	Shows the physical address assigned by ETS.	

## Status

### 13 Fieldbus, Object [1..13]

PARAMETER:	DESCRIPTION:	
<b>16 Value</b>	Shows the status of the fields bus connection.	
<b>20 Target motor group output</b> Displayed only if object direction in input	Shows the actual output that the input applies to the motor groups.	
<b>23 Source smoke zone(s) output</b> Displayed only if the output is linked to one or more smoke zones.	Shows the actual input from the associated smoke zones.  <b>OPTIONS:</b> Line A Line B Reset Line C Line D Line E Line F Comfort stop Comfort open Comfort close Comfort safety Line A error Line B error Line C error Line D error Line E error Line F error Break glass unit error Motor group error Master slave error PSU error PSU warning Weather data error Local 'Safety' System error	
<b>26 Source motor group(s) output</b> Displayed only if the output is linked to one or more motor group(s)	Shows the actual input from the associated motor group(s).	

## Status

### 16 BACnet IP, Object [1..13]

PARAMETER:	DESCRIPTION:	
16 Value	Shows the status of the fields bus connection.	
20 Target motor group output Displayed only if object direction in input	Shows the actual output that the input applies to the motor groups.	
23 Source smoke zone(s) output Displayed only if the output is linked to one or more smoke zones.	Shows the actual input from the associated smoke zone(s).  <b>OPTIONS:</b> Line A Line B Reset Line C Line D Line E Line F Comfort stop Comfort open Comfort close Comfort safety Line A error Line B error Line C error Line D error Line E error Line F error Break glass unit error Motor group error Master slave error PSU error PSU warning Weather data error Local 'Safety' System error	
26 Source motor group(s) output Displayed only if the output is linked to one or more motor group(s)	Shows the actual input from the associated motor group(s).	

## Status

### 15 Configuration files, USB [All]

PARAMETER:	DESCRIPTION:	
18 Power state USB	Shows the actual power state of the USB interface.	

## Status

### 0 System

PARAMETER:	DESCRIPTION:	
<b>29 Configuration chip (NVM)</b> Displayed only if relevant	This chip contains the saved configuration. In case of a hardware error with this chip, the configuration cannot be saved.	
<b>35 Backup time stamp</b>	Shows the time stamp. The time stamp is updated each time the configuration is saved as a backup.	
<b>34 Unsaved changes</b>	Shows if there have been changes to the configuration since the last backup was saved. If so, this value will be 'Yes'.  <u>OPTIONS:</u> No Yes	
<b>57 Time for service</b>	Shows if it is time for service.  <u>OPTIONS:</u> No Yes	

## View all details

### 4 Motor line [ALL]

PARAMETER:	DESCRIPTION:	
16 Discover on MotorLink®	By pressing 'Discover MotorLink®' all the window motors and locking motors (WMBs) on all MotorLink® outputs are discovered. If no errors are found, this number will be equivalent to the actual number of connected motors and locking motors (WMBs).	
17 Manual hand position	Position with manual priority to an position relative to actual position of the motor (open/stop/close).	

## View all details

### 4 Motor line [1..13]

PARAMETER:	DESCRIPTION:	
<b>16 Motor type</b>	Shows the type of the actual motor output.  <b>OPTIONS:</b> None MotorLink® ±24V motor	
<b>67 Status</b>	Shows the status of the motor line.	
<b>17 Expected no. of motors</b> Displayed if motor type = MotorLink®	Specify the number of motors that are connected on this motorline (except locking motors (WMBs)) or if there are magnetic clamps. Choose between: None = no motors on the motorline, 1 = one motor (1 x -1), 2 = two motors (2 x -2), 3=three motors (3 x -3), 4=four motors (4 x -4). Magnetic clamp = the output has voltage until it is triggered by alarm. Not set = factory setting. 'Discover' (is used in two situations): 1. When the touchscreen informs that there is a discrepancy between the specified number of motors and the detected number of motors. Press 'Discover' to discover the number of connected motors on the line. The number will be displayed and the number can now be compared to the entered number of motors. 2. When the cable connection has been changed, if a motor has been changed or the number of motors has been changed.  <b>OPTIONS:</b> None 1 2 3 4 Magnetic clamp Not set Discover  <b>Factory default value:</b> Not set	
<b>60 No. of found motors</b>  Displayed only if the motor configuration does not correspond with the discovered motor status.	Shows the number of motors detected on the motor line.	

<p><b>19 Motor configuration</b> Displayed if motor type = ±24V motor</p>	<p>Choose between: None = no motors connected on the motor line. No cable monitoring = the motors on the line has no cable monitoring. 3 wire cable monitoring = with 3 wire cable monitoring (notice: the type is to be set in the next step). Magnetic clamp = the output has voltage until it is triggered by alarm. Magnetic clamp, 3 w. monitoring = magnetic clamp and cable monitoring. Not set = factory setting.</p> <p><b>OPTIONS:</b> None No cable monitoring 3 wire cable monitoring Magnetic clamp Magnetic clamp, 3 w. surveillance Not set Pyrotechnic gas generator Alarm output</p> <p><b>Factory default value:</b> Not set</p>	
<p><b>79 Wire cable check type</b> Displayed if 3 wire cable monitoring</p>	<p>Specify the type (WSA 423 or WSA 510) of the 3-wire cable check end module.</p> <p><b>OPTIONS:</b> Diodes (WSA 432) 10kOhm resistors (WSA 510) 10kOhm resistors, simple (WSA 510) None</p> <p><b>Factory default value:</b> 10kOhm resistors (WSA 510)</p>	
<p><b>20 Discover motors</b> Displayed if motor type = MotorLink®</p>	<p>Specify if the system shall detect the motors on the motor line. The function is used, if changes has been made in the cable connection, if replacement of a motor has been done or the number of motors has been changed.</p>	
<p><b>66 Stroke time</b> Displayed if motor type = ±24V motor</p>	<p>Specify the time it takes the motor to run from fully closed position to fully open.</p> <p><b>Factory default value:</b> 60 s</p>	
<p><b>21 Motor group</b></p>	<p>Specify the number of the motor group to which the motorline is to be associated with. . One or more motor lines can be associated to the same motor group. All the motor lines in the group will be operated at the same time on the break glass unit/keypads of the group.</p> <p><b>Factory default value:</b> None</p>	
<p><b>22 Close from field bus</b></p>	<p>Shows if 'close' is received from the field bus module.</p>	
<p><b>81 Close from BACnet IP</b></p>	<p>Shows if 'close' is received from BACnet IP.</p>	
<p><b>23 Max comfort pos. field bus</b></p>	<p>Shows the maximum allowed opening limitation with comfort priority set by the field bus.</p>	
<p><b>80 Max comfort pos. BACnet IP</b></p>	<p>Shows the maximum allowed opening limitation with comfort priority set by BACnet IP.</p>	

<b>24 Max. comfort pos. motor gr.</b>	Shows the maximum allowed opening limitation with comfort priority set by the associated motor group.	
<b>25 Manual absolute position</b>	For manual operation of the opening with +1/-1, +10/-10 or max/min.	
<b>26 Manual relative position</b>	For manual operation of the connected actuators on the line with manual priority (open/stop/close).	
<b>27 Automatic position</b>	Position with comfort priority to an absolute position.	
<b>28 Heat / smoke position</b>	Position with heat / smoke priority.	
<b>29 Disable auto. Position</b>	Specify if the position is to be disabled with automatic/comfort priority.  <b>OPTIONS:</b> No Yes  <b>Factory default value:</b> No	
<b>30 Disable hand position</b>	Specify if the positions with manual priority is to be disabled.  <b>OPTIONS:</b> No Yes  <b>Factory default value:</b> No	
<b>31 Actual maximum position</b>	Shows the actual resulting maximum opening. This is the lowest value of all limiting inputs.	
<b>32 Actual position</b>	Shows the actual opening of the connected motors.	
<b>18 Expected no. of locking motors</b> Displayed if motor type = MotorLink®	Specify the number of locking motors (WMBs) that are connected on the motor line. If the number discrepancy the detected number a hardware error is displayed.  <b>OPTIONS:</b> None 1 2 Discovering...  <b>Factory default value:</b> None	
<b>61 No. of found locking motors</b> Displayed only if the motor configuration does not correspond with the discovered motor status.	Shows the actual number of locking motors (WMBs) detected on the motor line.	
<b>33 Comfort min. Position</b>	Specify the minimum allowed position with comfort priority.  <b>Factory default value:</b> 0%	
<b>34 Comfort max. position</b>	Specify the maximum allowed position with comfort priority.  <b>Factory default value:</b> 100%	

<p><b>35 Smoke / heat max. pos.</b> Displayed if motor type = MotorLink®</p>	<p>Specify the maximum allowed position with smoke / heat priority. <b>Factory default value:</b> 100%</p>	
<p><b>36 Smoke / heat speed</b> Displayed if motor type = MotorLink®</p>	<p>Specify the motor speed during smoke alarm. The speed is relative to the maximum speed of the motor type. <b>Factory default value:</b> 100%</p>	
<p><b>37 Manual speed</b> Displayed if motor type = MotorLink®</p>	<p>Specify the opening speed that the motor shall run at when operated manually on a keypad. The speed is a percentage of the max speed of the motor. <b>Factory default value:</b> 75%</p>	
<p><b>38 Auto. speed</b> Displayed if motor type = MotorLink®</p>	<p>Specify the opening speed that the motor shall run at when automatic comfort ventilation. The speed is a percentage of the max speed of the motor. <b>Factory default value:</b> 30%</p>	
<p><b>39 Temp. manual timer</b></p>	<p>Shows the remaining time of the manual priority timer. If the value is '0', the timer is not active.</p>	
<p><b>40 Manual command - auto. off period</b></p>	<p>Specify for how long the automatic/comfort priority is to be ignored after a manual action has been done e.g. an opening on the keypad. <b>Factory default value:</b> 30 min.</p>	
<p><b>41 Manual grace timer</b> Displayed only if relevant</p>	<p>Shows the remaining time of the manual grace timer. This is a safety feature so after a closing command the window can still be manually operated in a short time. If the value is '0', the timer is not active.</p>	
<p><b>42 Man. operation after auto. comm.</b></p>	<p>Specify for how long time it should be possible to operate the motor group (e.g. on a keypad), after the system has given an automatic command (e.g. close). Within this period it is possible to operate manually e.g. to release a stocked person (human safety). If this feature is not needed the value is set to '0'. <b>Factory default value:</b> 30 s</p>	
<p><b>43 Retry during alarm</b></p>	<p>Specify if the motors are to be reactivated for 30 minutes during a heat / smoke situation. Function as specified in EN12101-9, 5.2.1.5. <b>Factory default value:</b> No</p>	
<p><b>76 Open threshold</b></p>	<p>Threshold used for the 'Open status'. If the actual position is higher than this value, the 'open' status is active. <b>Factory default value:</b> 95%</p>	
<p><b>77 Open status</b></p>	<p>Shows the 'Open' status. If the actual opening position is higher than the 'Open threshold' this status is active.</p>	

<p><b>71 Max. unexpected overcurrent</b> Displayed if motor type = MotorLink®</p>	<p>Specify the number of times an overcurrent must be detected before the 0%-point of the motor is updated. When the motor position reaches fully open or fully closed the 'unexpected breaks' counter is reset. If the value is set to 0, the 0%-point will never be changed. It is recommended to set the value to 0 after the correct 0% point (closed) is found.</p>	
<p><b>90 Max. unexpected overcurrent (motor)</b> Displayed if motor type = MotorLink®</p>	<p>Specify the number of times an overcurrent must be detected before the 0%-point of the motor is updated. When the motor position reaches fully open or fully closed the 'unexpected breaks' counter is reset. If the value is set to 0, the 0%-point will never be changed. It is recommended to set the value to 0 after the correct 0% point (closed) is found.</p> <p><b>Factory default value:</b> 0</p>	
<p><b>72 Locking motor overcurrent is locked</b> Displayed if motor type = MotorLink®</p>	<p>Only relevant for locking motor type WMB 0xM. Configure, if the locking motor should be concerned as 'locked', if an overcurrent is detected during locking before reaching the end-switch.</p> <p><b>OPTIONS:</b> No Yes</p> <p><b>Factory default value:</b> No</p>	
<p><b>68 Error</b></p>	<p>Shows the error status of the motor line.</p>	
<p><b>69 Closed</b></p>	<p>Shows if all motors on the motor line is closed. If locking motors are present, they are also locked.</p>	
<p><b>70 Retransmit time</b></p>	<p>Specify the retransmit interval time for sending unchanged values on the connected field bus module.</p> <p><b>Factory default value:</b> 300 s</p>	
<p><b>89 Direction change delay time.</b> Displayed if motor type = ±24V motor</p>	<p>Direction change delay time.</p> <p><b>Factory default value:</b> 500 ms</p>	
<p><b>91 Pyrotechnic gas generator disabled</b></p>	<p>Set this to test the system without activating the pyrotechnic gas generator on this output. As long as this setting is active an error will be shown on this output.</p>	
<p><b>92 Sequential control type</b></p>	<p>Configure the sequential control type None, Open or Close. When Open or Close is selected the sequential control becomes active. The parameters 'Position limitation', 'Invert' and 'Position logic' define the conditions under which the constrained motor line can move beyond the defined limitation.</p> <p><b>Factory default value:</b> None</p>	
<p><b>93 Sequential control position limit</b></p>	<p>Configures the position limitation when sequential control is active.</p> <p><b>Factory default value:</b> 0%</p>	

<b>102 Sequential control position limit</b>	Configures the open / close position limitation when sequential control is active.	
	<b>Factory default value:</b> Closed 0%	
<b>94 Sequential control with</b>	Configures what the Motor line is to control together with. Motor Line, Local input, KNX input, BACnet input or a delay timer.	
	<b>Factory default value:</b> Motor line	
<b>95 Sequential control with no</b>	Configures with which number the sequential control should work.	
	<b>Factory default value:</b> -	
<b>96 Sequential control position logic</b>	Configures if the sequential control is active if position is greater than or equal or less than or equal.	
	<b>Factory default value:</b> Greater than or equal	
<b>97 Sequential control position</b>	Configures the sequential control position threshold to compare the actual position of the controled motor line with.	
	<b>Factory default value:</b> 0%	
<b>103 Sequential control position</b>	Configures the sequential control open / close position threshold with which the actual position of the sequential control motor line is compared with.	
	<b>Factory default value:</b> Closed 0%	
<b>98 Sequential control invert</b> Displayed only if relevant	Configures if the state of the control input should be inverted.	
	<b>Factory default value:</b> No	
<b>99 Sequential control max. wait time</b>	Configures the maximal time a command is pending due to sequential control. If the timer runs out the window will continue its movement.	
	<b>Factory default value:</b> 0 s	
<b>104 Reclose</b> Displayed if motor type = ±24V motor	Configures if a motor output that is considered to be closed (actual position 0%) should be reclosed (output activated in closed direction) when a close condition occurs.	
	<b>Factory default value:</b> Yes	
<b>62 Motor hardware version</b> Displayed if motor type = MotorLink®	Shows the hardware versions of the connected motors.	
<b>64 Motor software versions</b> Displayed if motor type = MotorLink®	Shows the firmware versions of the connected motors.	
<b>100 Team size</b>	Shows the team size of the motors.	
<b>54 Motor 1's serial number</b> Displayed if motor type = MotorLink®	Parameter of the motor (can not be changed).	
<b>55 Motor 2's serial number</b> Displayed if motor type = MotorLink®	Parameter of the motor (can not be changed).	

<b>56 Motor 3's serial number</b> Displayed if motor type = MotorLink®	Parameter of the motor (can not be changed).	
<b>57 Motor 4's serial number</b> Displayed if motor type = MotorLink®	Parameter of the motor (can not be changed).	
<b>45 Motor max. Speed</b> Displayed if motor type = MotorLink®	Parameter of the motor (can not be changed).	
<b>50 Locking motor config. flags</b> Displayed if motor type = MotorLink®	Parameter of the motor (can not be changed).	
<b>51 Chain length</b> Displayed if motor type = MotorLink®	Parameter of the motor (can not be changed).	
<b>53 Service position</b> Displayed if motor type = MotorLink®	Parameter of the motor (can not be changed).	
<b>63 Locking motor hardware version</b> Displayed if motor type = MotorLink®	Shows the hardware versions of the connected locking motors (WMBs).	
<b>65 Locking motor software versions</b> Displayed if motor type = MotorLink®	Shows the firmware versions of the connected locking motors (WMBs).	
<b>101 Locking motor team size</b> Displayed if motor type = MotorLink®	Shows the team size of the locking motors.	
<b>58 Locking motor 1's serial number</b> Displayed if motor type = MotorLink®	Parameter of the motor (can not be changed).	
<b>59 Locking motor 2's serial number</b> Displayed if motor type = MotorLink®	Parameter of the motor (can not be changed).	
<b>46 Locking motor max. speed</b> Displayed if motor type = MotorLink®	Parameter of the motor (can not be changed).	

## View all details

### 3 Motor group [1..13]

PARAMETER:	DESCRIPTION:	
16 Controlling smoke zone	Specify the number of the smoke zone that controls the motor group.  <u>Factory default value:</u> None	
17 Actual smoke position	Shows the actual position with heat and smoke priority set to the motor group.	
41 Alarm delay timer Displayed only if relevant	Shows the delay of the command to the motor lines after an alarm is triggered. 0s (0 sec.) = the alarm command is forwarded with no delay.	
18 Manual absolute position	Specify the position (+1 -1 +10 -10 min max) with manual priority to an absolute position.	
19 Manual relative position	Specify the relative position with manual priority (open, stop, close).	
20 Automatic opening	Shows the last automatic position command sent to the motor group.	
21 Field bus max. comfort pos. motor gr.	Specify the maximum allowed position with manual or comfort priority.  <u>Factory default value:</u> 100%	
39 BACnet IP max. comfort pos. motor gr.	Specify the maximum allowed position with manual or comfort priority.  <u>Factory default value:</u> 100%	
22 Actual status	Shows the actual status of the motor group.  <u>OPTIONS:</u> Motor line error Closed Not closed High wind speed Safety input Open Alarm Input error	
23 Actual maximum position	Shows the actual resulting maximum opening limitation. This is the lowest value of all limiting inputs.	
24 No. of associated break glass units	Shows the number of comfort inputs on break glass units that are associated to the motor group.	
25 No. of associated local inputs	Shows the number of local inputs that are associated to the motor group.	
26 No. of associated motor lines	Shows the number of motor lines that is associated to this motor group.	
34 No. of associated field bus inputs	Shows the number of field bus inputs that are associated to the motor group.	

<p><b>38 No. of associated BACnet IP inputs</b></p>	<p>Shows the number of field bus inputs that are associated to the motor group.</p>	
<p><b>27 Smoke maximum position</b></p>	<p>Specify the maximum allowed position during heat and smoke. This value will limit the position set by the smoke zone. Normally the value is set to 100%.</p> <p><b>Factory default value:</b> 100%</p>	
<p><b>28 Comfort maximum position</b></p>	<p>Specify the maximum allowed position during manual or comfort. This value will limit the position set by manual or comfort commands.</p> <p><b>Factory default value:</b> 100%</p>	
<p><b>29 Comfort safety maximum position</b></p>	<p>Specify the maximum position during manual or comfort when a safety input associated the motor group is active.</p> <p><b>Factory default value:</b> 0%</p>	
<p><b>30 Comfort wind maximum position</b></p>	<p>Specify the maximum position during manual or comfort when the wind speed has exceeded the safety wind speed threshold.</p> <p><b>Factory default value:</b> 0%</p>	
<p><b>31 Comfort open position</b></p>	<p>Specify the position that is used in the event, when a 'comfort-open' command is sent to the motor group.</p> <p><b>Factory default value:</b> 15%</p>	
<p><b>43 Comfort open close time</b></p>	<p>Specify an optional time out to close the windows after a comfort open event. If 0 is specified the windows will not be closed automatically.</p> <p><b>Factory default value:</b> 0 s</p>	
<p><b>44 Comfort open remaining time</b> Displayed only if relevant</p>	<p>Shows the remaining time of the comfort open.</p>	
<p><b>32 Comfort maximum wind speed</b></p>	<p>Specify the safety wind speed threshold. If this limit is exceeded the position of the motor group is limited to the 'comfort safety maximum position'. If the value is set to 0 the wind speed safety function is disabled.</p> <p><b>Factory default value:</b> 0.0 m/s</p>	
<p><b>33 Retransmit time</b></p>	<p>Specify the retransmit interval time for sending unchanged values on the connected field bus module.</p> <p><b>Factory default value:</b> 300 s</p>	
<p><b>36 Use 'safety' from smoke zone</b></p>	<p>Specify if the 'safety' signal from the smoke zone should be used in the motor group.</p> <p><b>OPTIONS:</b> No Yes</p> <p><b>Factory default value:</b> Yes</p>	

<b>37 Wind directions, where to close during alarm</b>	<p>Specify the wind directions where the windows in the motor group should close during wind dependant heat &amp; smoke ventilation. The direction interval is <math>\pm 7^\circ</math> around the shown direction.</p> <p><b>OPTIONS:</b></p> <ul style="list-style-type: none"><li>0°</li><li>15°</li><li>30°</li><li>45°</li><li>60°</li><li>75°</li><li>90°</li><li>105°</li><li>120°</li><li>135°</li><li>150°</li><li>165°</li><li>180°</li><li>195°</li><li>210°</li><li>225°</li><li>240°</li><li>255°</li><li>270°</li><li>285°</li><li>300°</li><li>315°</li><li>330°</li><li>345°</li></ul> <p><b>Factory default value:</b> None</p>
<b>40 Alarm delay</b>	<p>Specify the delay activation of the motor lines after an alarm is received. 0s (0 sec.) = the alarm command is activated with no delay.</p> <p><b>Factory default value:</b> 0 s</p>
<b>42 Close at mains error</b>	<p>Specify if the motor group should be closed when a mains error becomes active. This is 30 minutes after missing mains voltage is detected.</p> <p><b>Factory default value:</b> Yes</p>

## View all details

### 5 Break glass unit [ALL]

PARAMETER:	DESCRIPTION:	
17 Bus topology is ring	<p>Specify if the bus topology of the break glass unit bus is closed (Yes) or not closed (No). If the setting is set to 'Yes' an error message will appear if the ring is broken.</p> <p><b>OPTIONS:</b> No Yes</p> <p><b>Factory default value:</b> Yes</p>	
18 Ring bus status	<p>Shows the actual status of the break glass unit bus, if it is a closed ring or not.</p> <p><b>OPTIONS:</b> No Yes</p>	
19 SHE bus 1 is OK	<p>Shows if bus connection 1 is okay. If there is no break glass units on the connected bus line, or the connection is not used, the status will not be OK.</p> <p><b>OPTIONS:</b> No Yes</p>	
20 SHE bus 2 is OK	<p>Shows if bus connection 2 is okay. If there is no break glass units on the connected bus line, or the connection is not used, the status will not be OK.</p> <p><b>OPTIONS:</b> No Yes</p>	
21 Bus error	<p>Shows if there is a general error on the break glass unit bus. The is only relevant if the bus topology is set to 'ring'.</p> <p><b>OPTIONS:</b> No Yes</p>	

## View all details

### 5 Break glass unit [1..30]

PARAMETER:	DESCRIPTION:	
35 Device type	<p>Device type</p> <p><b>OPTIONS:</b>                      WSK 501/2                      WSK 503/4                      Unknown</p>	
16 Serial number	<p>Shows the serial number for the connected break glass unit. The serial number is unique for this break glass unit and the serial number is also stated on the label of the break glass unit.</p>	
17 Associated smoke zone	<p>Specify the smoke zone which the break glass unit shall operate.</p> <p><b>Factory default value:</b> None</p>	
31 Use comfort inputs in smoke zone	<p>Specify if the comfort inputs should be associated with the smoke zone.</p> <p><b>OPTIONS:</b>                      No                      Yes</p> <p><b>Factory default value:</b> Yes</p>	
18 Threshold for open-circuit smoke sensor	<p>Threshold for open-circuit smoke sensor</p> <p><b>Factory default value:</b> 4</p>	
20 Threshold for active smoke sensor	<p>Threshold for active smoke sensor</p> <p><b>Factory default value:</b> 23</p>	
19 Threshold for short-circuit smoke sensor	<p>Threshold for short-circuit smoke sensor</p> <p><b>Factory default value:</b> 111</p>	
21 Device status	<p>Device status</p> <p><b>OPTIONS:</b>                      Alarm                      Reset                      Door switch                      Power line error                      Smoke det. active                      Smoke det. error                      Open key                      Close key                      Move up                      Move down                      Up short                      Down short                      Comm. line error</p>	

<p><b>36 Status of slave</b></p> <p>Displayed only if relevant</p>	<p>Status of slave</p> <p><b>OPTIONS:</b></p> <p>-</p> <p>Line A</p> <p>Line B</p> <p>Line C</p> <p>Line D</p> <p>Line E</p> <p>Line F</p>	
<p><b>22 Connection</b></p>	<p>Shows if there is connection to the break glass unit. Yes = there is connection. No = there is no connection.</p> <p><b>OPTIONS:</b></p> <p>No</p> <p>Yes</p>	
<p><b>23 Comfort motor group</b></p>	<p>Specify which motor group/groups that comfort keypad/-pads shall control.</p> <p><b>Factory default value:</b> None</p>	
<p><b>26 Type</b></p>	<p>Shows the type of glass break unit.</p>	
<p><b>27 Firmware version</b></p>	<p>Shows the firmware version of the break glass unit.</p>	
<p><b>28 Br.glass unit+sensor one smoke zone</b></p>	<p>Specify if there is connected smoke sensor to the break glass unit and also specify if the smoke detector shall release the same smoke zone or another smoke zone.</p> <p>In case where ex. the break glass unit of the smoke zone shall release the opening of the windows in the facade and the smoke detector shall release the opening of the roof windows, the function is set to 'Other smoke zone' (it/they are selceted afterwards).</p> <p><b>OPTIONS:</b></p> <p>Not used</p> <p>Same smoke zone</p> <p>Other smoke zone</p> <p><b>Factory default value:</b> Not used</p>	
<p><b>29 Smoke sensor associated with smoke zone</b></p> <p>Displayed only if smoke detector is assigned to specific smoke zone(s)</p>	<p>Specify the smoke zone, that the break glass unit shall control.</p> <p><b>Factory default value:</b> None</p>	
<p><b>30 Status of smoke sensor</b></p> <p>Displayed only if smoke detector is assigned to specific smoke zone(s)</p>	<p>Status of smoke sensor</p>	
<p><b>25 Unit beep 1 min. for locating</b></p>	<p>Specify if the break glass unit shall beep 1 minute to locate unit when configuration. The buzzer will beep for 1 min. or until the reset button in the break glass unit is pressed.</p>	

**24 Delete this unit**

Specify if the this break glass unit shall be deleted from the overview of the break glass units.

If the break glass unit is no longer in use or are replaced with a new break glass unit, the break glass unit shall be removed. Also remove cable connection to the break glass unit, otherwise the break glass unit will be redetected and assigned with the first available number on the overview.



## View all details

### 2 Smoke zone [ALL]

PARAMETER:	DESCRIPTION:	
16 Slot 1 maximum temperature	Shows the maximum measures temperature since last reset of the value (the value can be reset).	
17 Slot 3 maximum temperature Displayed only if a temperature sensor is present in the slot	Shows the maximum measures temperature since last reset of the value.	
18 Slot 4 maximum temperature Displayed only if a temperature sensor is present in the slot	Shows the maximum measures temperature since last reset of the value.	
19 Slot 5 maximum temperature Displayed only if a temperature sensor is present in the slot	Shows the maximum measures temperature since last reset of the value.	
20 High temperature threshold	Shows the high temperature threshold for generating error and activate smoke zone(s).  <b>Factory default value:</b> 72°C	
21 High temperature error	Shows the status of the high temperature error. To reset the error the maximum temperature must be reset.  <b>OPTIONS:</b> No Yes	
22 Target smoke zones	Specify which smoke zone(s) a high temperature error shall control.  <b>Factory default value:</b> None	
23 Target smoke zone function	Specify which command a high temperature error in the panel should use in the smoke zones. Factory setting = 'Line A'.  <b>Factory default value:</b> None	
24 Target smoke zone output	Shows the actual output that is applied to the target smoke zones.  <b>OPTIONS:</b> - Line A Line B Line C Line D Line E Line F  <b>Factory default value:</b> None	
25 Alarm / reset input	Alarm / reset input	

## View all details

### 2 Smoke zone [1..13]

PARAMETER:	DESCRIPTION:	
<b>16 Status (local)</b> Displayed only if the Smoke zone is slave to another smoke zone.	Shows the status of the local smoke zone. Will only be showed if the smoke zone is a slave.	
<b>17 Status</b>	Shows the status of the smoke zone. If the smoke zone is a slave this the status received from the master smoke zone.	
<b>24 Alarm / reset input</b>	In this mode it is possible to manually operate the smoke zone.	
<b>25 Reset higher priority than break glass unit (Line A)</b>	Specify if a reset should have higher priority than a triggered break glass unit (Line A alarm).  <b>OPTIONS:</b> No Yes  <b>Factory default value:</b> No	
<b>26 Buzzer active during alarm</b>	Specify if the break glass unit shall buzz during alarm.  <b>OPTIONS:</b> No Yes  <b>Factory default value:</b> Yes	
<b>27 Actual smoke pos.</b>	Shows the actual position set point during an alarm situation.	
<b>70 Sampled alarm wind direction</b>	Shows the wind direction sampled when the alarm occurred. 0 = the wind dependant opening is not active. 1-24 = the wind dependant opening is active.	
<b>29 Alarm</b>	Shows if there is an active heat & smoke situation in the smoke zone.	
<b>30 Error</b>	Shows is there is an error in the smoke zone.	
<b>35 Controlled smoke zone</b>	Specify which smoke zone / zones that this smoke zone should control.  <b>Factory default value:</b> None	

<p><b>36 Function in target smoke zone</b></p> <p>Displayed only if the smoke zone is linked to one or more smoke zones.</p>	<p>Specify which function this smoke zone should apply to the target smoke zone(s). Also specify if the controlling smoke zone are to reset the controlled smoke zone.</p> <p><b>OPTIONS:</b></p> <ul style="list-style-type: none"> <li>-</li> <li>Line A</li> <li>Line B</li> <li>Line C</li> <li>Line D</li> <li>Line E</li> <li>Line F</li> </ul> <p><b>Factory default value:</b> None</p>	
<p><b>37 Target smoke zone output</b></p>	<p>Shows the actual output that the smoke zone applies to the target smoke zones.</p> <p><b>OPTIONS:</b></p> <ul style="list-style-type: none"> <li>Line A</li> <li>Line B</li> <li>Reset</li> <li>Line C</li> <li>Line D</li> <li>Line E</li> <li>Line F</li> <li>Comfort stop</li> <li>Comfort open</li> <li>Comfort close</li> <li>Comfort safety</li> <li>Line A error</li> <li>Line B error</li> <li>Line C error</li> <li>Line D error</li> <li>Line E error</li> <li>Line F error</li> <li>Break glass unit error</li> <li>Motor group error</li> <li>Master slave error</li> <li>PSU error</li> <li>PSU warning</li> <li>Weather data error</li> <li>Local 'Safety'</li> <li>System error</li> </ul>	
<p><b>38 Break glass unit output</b></p>	<p>Shows the actual status sent to the associated break glass unit(s).</p> <p><b>OPTIONS:</b></p> <ul style="list-style-type: none"> <li>Smoke reset</li> <li>Red LED on</li> <li>Red LED flash</li> <li>Yellow LED on</li> <li>Yellow LED flash</li> <li>Green LED on</li> <li>Green LED flash</li> <li>Buzzer on</li> <li>Buzzer beep</li> </ul>	

<p><b>39 Error generates alarm</b></p> <p>Displayed only if relevant</p>	<p>Specify if an error in the smoke zone should trigger a smoke alarm in the smoke zone.</p> <p><b>Factory default value:</b> No</p>	
<p><b>42 Master for this smoke zone</b></p> <p>Displayed only if relevant</p>	<p>Shows the master smoke zone for this smoke zone. If it is 'None', then this smoke has no master smoke zone. To associate this smoke zone with a master, configure this smoke zone as a slave smoke in the configuration of the master smoke zone.</p>	
<p><b>43 Slave 1 of this smoke zone</b></p> <p>Displayed only if relevant</p>	<p>1. First specify in which 20A section the slave smoke zone is placed. 2. Then specify which smoke zone that are to be slave. Local inputs for slave smoke zones will be sent to the master. The smoke status will be sent to the selected slave smoke zone.</p> <p><b>Factory default value:</b> None</p>	
<p><b>44 Slave 2 of this smoke zone</b></p> <p>Displayed only if relevant</p>	<p>1. First specify in which 20A section the slave smoke zone is placed. 2. Then specify which smoke zone that are to be slave Local inputs for slave smoke zones will be sent to the master. The smoke status will be sent to the selected slave smoke zone.</p> <p><b>Factory default value:</b> None</p>	
<p><b>45 Slave 3 of this smoke zone</b></p> <p>Displayed only if relevant</p>	<p>1. First specify in which 20A section the slave smoke zone is placed. 2. Then specify which smoke zone that are to be slave Local inputs for slave smoke zones will be sent to the master. The smoke status will be sent to the selected slave smoke zone.</p> <p><b>Factory default value:</b> None</p>	
<p><b>46 Slave 4 of this smoke zone</b></p> <p>Displayed only if relevant</p>	<p>1. First specify in which 20A section the slave smoke zone is placed. 2. Then specify which smoke zone that are to be slave Local inputs for slave smoke zones will be sent to the master. The smoke status will be sent to the selected slave smoke zone.</p> <p><b>Factory default value:</b> None</p>	
<p><b>63 Slave 1 status (in)</b></p> <p>Displayed only if relevant</p>	<p>Shows the status (in) received from slave 1 smoke zone.</p>	
<p><b>64 Slave 2 status (in)</b></p> <p>Displayed only if relevant</p>	<p>Shows the status (in) received from slave 2 smoke zone.</p>	
<p><b>65 Slave 3 status (in)</b></p> <p>Displayed only if relevant</p>	<p>Shows the status (in) received from slave 3 smoke zone.</p>	
<p><b>66 Slave 4 status (in)</b></p> <p>Displayed only if relevant</p>	<p>Shows the status (in) received from slave 4 smoke zone.</p>	
<p><b>75 Latching</b></p>	<p>Specify, which Lines that have latching function, i.e. requires a Reset function to reset.</p> <p><b>Factory default value:</b> Line B</p>	

<p><b>76 Close after Alarm</b></p>	<p>Specify if the windows close automatically after an Alarm. This is done even if there is no mains power.</p> <p><b>OPTIONS:</b> No Yes</p> <p><b>Factory default value:</b> Yes</p>	
<p><b>18 Line A smoke opening pos.</b></p>	<p>Specify the opening percentage to which the motors shall open, when line A (e.g. break glass unit) is triggered. 100% = the windows will open fully when triggered. 0% = the windows will close completely when triggered.</p> <p><b>Factory default value:</b> 100%</p>	
<p><b>19 Line B (smoke detector) smoke opening pos.</b></p>	<p>Specify the opening percentage to which the motors shall open, when line B (e.g. smoke detector) is triggered. 100% = the windows will open fully when triggered. 0%=the windows will close fully when triggered.</p> <p><b>Factory default value:</b> 100%</p>	
<p><b>20 Line C smoke smoke opening pos.</b></p>	<p>Specify the opening percentage to which the motors shall open, when line C is triggered. 100% = the windows will open fully. 0%=the windows will close fully.</p> <p><b>Factory default value:</b> 100%</p>	
<p><b>21 Line D smoke smoke opening pos.</b></p>	<p>Specify the opening percentage to which the motors shall open, when line D is triggered. 100% = the windows will open fully. 0%=the windows will close fully.</p> <p><b>Factory default value:</b> 0%</p>	
<p><b>73 Line E highest priority</b></p>	<p>Enable this to configure Line E to have the highest possible priority. Also higher than wind dependant opening position. Only to be used for fireman's override panels, with absolute first priority.</p> <p><b>OPTIONS:</b> No Yes</p> <p><b>Factory default value:</b> No</p>	
<p><b>22 Line E smoke smoke opening pos.</b></p>	<p>Specify the opening percentage to which the motors shall open, when line E is triggered. 100% = the windows will open fully, 0%=the windows will close fully.</p> <p><b>Factory default value:</b> 100%</p>	
<p><b>74 Line F highest priority</b></p>	<p>Enable this to configure Line F to have the highest possible priority, also higher than Line E if this is set to highest priority. Also higher than wind dependant opening position. Only to be used for fireman's override panels, with absolute first priority.</p> <p><b>OPTIONS:</b> No Yes</p> <p><b>Factory default value:</b> No</p>	

<b>23 Line F smoke opening pos.</b>	Specify the opening percentage to which the motors shall open, when line F is triggered. 100% = the windows will open fully, 0%=the windows will close fully.	
	<b>Factory default value:</b> 0%	
<b>41 No. of smoke detec. before alarm</b>	Specify the number of smoke detectors that shall be triggered before an smoke alarm is triggered.	
	<b>Factory default value:</b> 1	
<b>31 No. of associated break glass units</b>	Shows the number of break glass units that are associated to the smoke zone.	
<b>40 No. of associated break smoke sensors</b>	Shows the number of smoke sensors connected to break glass units that are associated to the smoke zone.	
<b>32 No. of associated local inputs</b>	Shows the number of local inputs which are associated to the smoke zone.	
<b>33 No. of associated motor groups</b>	Shows the number of motor groups which have the smoke zone associated.	
<b>34 No. of smoke zone sources</b>	Shows the number of smoke zones which have this smoke zone associated.	
<b>28 Retransmit time</b>	Specify the retransmit interval time for sending unchanged values on the connected field bus module.	
	<b>Factory default value:</b> 300 s	
<b>68 Use comfort commands</b>	Specify if the comfort commands should control the motor groups of this smoke zone.	
	<b>OPTIONS:</b>	
	No	
	Yes	
	<b>Factory default value:</b> Yes	
<b>72 Use comfort commands from slaves</b>	Specify if the comfort commands from slaves should control the motor groups of this smoke zone.	
	<b>OPTIONS:</b>	
	No	
	Yes	
	<b>Factory default value:</b> Yes	
<b>69 Wind direction speed threshold</b>	Specify the wind speed threshold for wind direction dependant heat & smoke strategy to be used. If the wind speed is lower than this limit when an alarm occurs, the window opening will not be dependant of the wind direction.	
	<b>Factory default value:</b> 1.0 m/s	

## View all details

### 6 Local input [1..26]

PARAMETER:	DESCRIPTION:	
<b>16 Input type</b>	<p>Shows the type of the selected input.</p> <p><b>OPTIONS:</b></p> <ul style="list-style-type: none"> <li>None</li> <li>Smoke detector</li> <li>Binary</li> <li>24/48V</li> <li>Binary</li> <li>Binary</li> </ul>	
<b>25 Control smoke zones</b>	<p>Specify which smoke zone/zones the input shall control. The input can either control smoke zones or motor groups. When smoke zone is chosen the option for controlling motor groups is lost.</p> <p><b>Factory default value:</b> None</p>	
<b>26 Function in controlled smoke zones</b>  Displayed only if the input is linked to one or more smoke zones.	<p>Specify the function that the input applies to the associated smoke zones.</p> <p><b>OPTIONS:</b></p> <ul style="list-style-type: none"> <li>-</li> <li>Line A</li> <li>Line B</li> <li>Reset</li> <li>Line C</li> <li>Line D</li> <li>Line E</li> <li>Line F</li> <li>Comfort stop</li> <li>Comfort open</li> <li>Comfort close</li> <li>Comfort safety</li> </ul> <p><b>Factory default value:</b> None</p>	
<b>39 Inactive function in controlled smoke zones</b>  Displayed only if the input is linked to one or more smoke zones.	<p>Specify the function that the input applies to the associated smoke zones, when it becomes inactive.</p> <p><b>OPTIONS:</b></p> <ul style="list-style-type: none"> <li>-</li> <li>Line A</li> <li>Line B</li> <li>Reset</li> <li>Line C</li> <li>Line D</li> <li>Line E</li> <li>Line F</li> <li>Comfort stop</li> <li>Comfort open</li> <li>Comfort close</li> <li>Comfort safety</li> </ul> <p><b>Factory default value:</b> None</p>	

<p><b>27 Target smoke zone output</b></p> <p>Displayed only if the input is linked to one or more smoke zones.</p>	<p>Shows the actual output that the input applies to the smoke zones.</p> <p><b>OPTIONS:</b></p> <ul style="list-style-type: none"> <li>-</li> <li>Line A</li> <li>Line B</li> <li>Reset</li> <li>Line C</li> <li>Line D</li> <li>Line E</li> <li>Line F</li> <li>Comfort stop</li> <li>Comfort open</li> <li>Comfort close</li> <li>Comfort safety</li> </ul>	
<p><b>28 Control motor groups</b></p> <p>Displayed only if the input is binary</p>	<p>Specify which motor group(s) the input shall control. The input can either control smoke zones or motor groups. When motor groups is chosen the option for controlling smoke zones is lost.</p> <p><b>Factory default value:</b> None</p>	
<p><b>29 Active function in controlled motor groups</b></p> <p>Displayed only if the input is linked to one or more motor group(s)</p>	<p>Specify the function that the input applies to the associated motor groups when it becomes active.</p> <p><b>OPTIONS:</b></p> <ul style="list-style-type: none"> <li>-</li> <li>Open</li> <li>Close</li> <li>Stop</li> <li>Safety</li> <li>Comfort open</li> <li>Comfort step</li> <li>Auto. position</li> <li>Hand position</li> </ul> <p><b>Factory default value:</b> None</p>	
<p><b>40 Active position</b></p>	<p>Specify the position that is sent to the motor group with the active function.</p> <p><b>Factory default value:</b> 100%</p>	
<p><b>38 Inactive function in controlled motor groups</b></p> <p>Displayed only if the input is linked to one or more motor group(s)</p>	<p>Specify the function that the input applies to the associated motor groups, when it becomes inactive.</p> <p><b>OPTIONS:</b></p> <ul style="list-style-type: none"> <li>-</li> <li>Open</li> <li>Close</li> <li>Stop</li> <li>Safety</li> <li>Comfort open</li> <li>Comfort step</li> <li>Auto. position</li> <li>Hand position</li> </ul> <p><b>Factory default value:</b> None</p>	

<p><b>41 Inactive position</b></p>	<p>Specify the position that is sent to the motor group with the inactive function.</p> <p><b>Factory default value:</b> 0%</p>	
<p><b>30 Short press time</b></p> <p>Displayed only if the input is linked to one or more motor group(s)</p>	<p>Specify the time for a short activation of the input. If the activation is shorter than this time the short output function is applied. This option is only available if motor groups is controlled.</p> <p><b>Factory default value:</b> 500</p>	
<p><b>31 Short output function</b></p> <p>Displayed only if the input is linked to one or more motor group(s)</p>	<p>Specify the function that the input applies to the associated motor groups after a short activation of the input.</p> <p><b>Factory default value:</b> None</p>	
<p><b>32 Target motor group output</b></p> <p>Displayed only if the input is linked to one or more motor group(s)</p>	<p>Shows the actual output that the input applies to the motor groups.</p>	
<p><b>22 Active state</b></p>	<p>Specify what logical state to use when the input is activated.</p> <p><b>OPTIONS:</b></p> <ul style="list-style-type: none"> <li>Off</li> <li>On</li> </ul> <p><b>Factory default value:</b> On</p>	
<p><b>36 Thresholds configuration</b></p>	<p>Specify the thresholds for the input. Select between:          Switch = is used for a simple switch with no surveillance.          Type 1 = enables surveillance of broken cable (open circuit).          Type 2 = enables surveillance of broken and short (circuit) cable.          Manual = enables manual setting of thresholds.</p> <p><b>Factory default value:</b> Switch</p>	
<p><b>18 Threshold: Open-circuit error</b></p> <p>Displayed only if the input has Surveillance enabled</p>	<p>Specify the threshold level for detecting an open-circuit error. If the input level is higher than this value, the input is considered as interrupted and an error will be indicated. By setting the value to 22000 mV or higher, the open-circuit error detection is disabled.</p> <p><b>Factory default value:</b> 22000 mV</p>	
<p><b>19 Threshold: Active input</b></p>	<p>Specify the threshold level for detecting an active input. If the input level is lower than this value, the input is active.</p> <p><b>Factory default value:</b> 2800 mV</p>	
<p><b>20 Threshold: Short-circuit error</b></p> <p>Displayed only if the input has Surveillance enabled</p>	<p>Specify the threshold level for detecting a wire short-circuit error. If the input level is lower than this value the input is considered as short-circuited and a hardware error is indicated. By setting the value to 0, the short-circuit error detection is disabled.</p> <p><b>Factory default value:</b> 0 mV</p>	

<p><b>21 Error state</b></p> <p>Displayed only if the input has Surveillance enabled</p>	<p>Specify which state the input shall take, when an error is present on the input.</p> <p><b>OPTIONS:</b></p> <ul style="list-style-type: none"><li>None</li><li>Active</li><li>Inactive</li></ul> <p><b>Factory default value:</b> None</p>	
<p><b>23 State</b></p>	<p>Shows the actual state of the input.</p> <p><b>OPTIONS:</b></p> <ul style="list-style-type: none"><li>Unknown</li><li>Short circuit</li><li>Open circuit</li><li>On</li><li>Off</li><li>In reset</li></ul>	
<p><b>24 Terminal voltage</b></p>	<p>Shows the actual voltage reading of the of the input. Only updated when the input changes state.</p>	
<p><b>33 Press timer</b></p>	<p>Shows the actual press timer value.</p>	

## View all details

### 7 Local output [1..24]

PARAMETER:	DESCRIPTION:	
16 Output type	Shows the output type of the actual output.  <b>OPTIONS:</b> None Binary output	
26 Output mode	Specify the output mode of the output. When 'Siren' is chosen it is assumed that a alarm signalling device is connected to the output. The siren can be stopped under 'Manual operation'.  <b>OPTIONS:</b> Binary output Siren  <b>Factory default value:</b> Binary output	
17 Controlled by smoke zones	Specify which smoke zones that controls the output. One or more smoke zones can be selected. The logic function that is applied between the smoke zones can be configured.  <b>Factory default value:</b> None	
18 Smoke zone output functions  Displayed only if the output is linked to one or more smoke zones.	Specify the functions in the smoke zones that controls the output.  <b>OPTIONS:</b> - Line A Line B Reset Line C Line D Line E Line F Any line Any error  <b>Factory default value:</b> None	
19 Controlled by motor groups	Specify which motor groups that controls the output. One or more motor groups can be selected. The logic function that is applied between the motor groups can be configured.  <b>Factory default value:</b> None	

<p><b>20 Motor group output function</b></p> <p>Displayed only if the output is linked to one or more motor group(s)</p>	<p>Specify the function in the associated motor groups that controls the output.</p> <p><b>OPTIONS:</b></p> <ul style="list-style-type: none"> <li>Motor line error</li> <li>Closed</li> <li>Not closed</li> <li>High wind speed</li> <li>Safety active</li> <li>Open</li> <li>Alarm</li> <li>-</li> </ul> <p><b>Factory default value:</b> None</p>	
<p><b>21 Logic function</b></p> <p>Displayed only if the output is linked to one or more smoke zones or motor group(s)</p>	<p>Specify the logic function that is applied between the smoke zones or motor groups.</p> <p><b>OPTIONS:</b></p> <ul style="list-style-type: none"> <li>AND</li> <li>OR</li> </ul> <p><b>Factory default value:</b> OR</p>	
<p><b>22 Status when active</b></p> <p>Displayed only if the output is linked to one or more smoke zones or motor group(s)</p>	<p>Specify if an active output result should result in the physical output being 'on' or 'off'. This can be used to invert the output result.</p> <p><b>OPTIONS:</b></p> <ul style="list-style-type: none"> <li>Off</li> <li>On</li> </ul> <p><b>Factory default value:</b> On</p>	
<p><b>23 Time out</b></p> <p>Displayed only if the output is linked to one or more smoke zones or motor group(s)</p>	<p>Specify an optional time out. If the value is higher than 0, the output will be inactive after the specified time. If the value is 0, there is no time out. The factory settings 0 sec.</p> <p><b>Factory default value:</b> 0 s</p>	
<p><b>25 Actual output state</b></p>	<p>Shows the actual state of the output.</p>	
<p><b>28 Smoke zone output functions</b></p>	<p>Specify the functions in the associated smoke zones, that controls the siren output.</p> <p><b>OPTIONS:</b></p> <ul style="list-style-type: none"> <li>-</li> <li>Line A</li> <li>Line B</li> <li>Reset</li> <li>Line C</li> <li>Line D</li> <li>Line E</li> <li>Line F</li> <li>Any line</li> <li>Any error</li> </ul> <p><b>Factory default value:</b> None</p>	
<p><b>27 Stop the active siren</b></p> <p>Displayed only if relevant</p>	<p>Turn off the siren. If a new error occurs, the siren will restart.</p>	

## View all details

### 8 Weather station type

PARAMETER:	DESCRIPTION:	
<b>16 Sensor type</b>	<p>Specify which type of weather station that is connected to the WSA 5MC (S2X3.2). Choose between:                      None = no sensor.                      WOW = WOW 201 wind speed sensor and WOW 202 wind direction sensor.                      WLA = WLA 340 wind speed sensor.                      WLA 330 and WLA 331 are not configured as weather stations but as a normal local input.</p> <p><b>OPTIONS:</b>                      None                      WOW                      WLA 340</p> <p><b>Factory default value:</b> None</p>	
<b>17 Status</b>	<p>Shows the status for the weather station.</p>	
<b>18 Wind speed</b>	<p>Shows the actual wind speed.                      Wind speed and direction exists with two different filtrations. The time constant for the two different filtering's can be set individually.</p>	
<b>19 Filtered wind speed</b>	<p>Shows the actual filtered wind speed.                      Wind speed and direction exist with two different filtrations. The time constant for the two different filtering's can be set individually.</p>	
<b>20 Wind direction</b> Displayed when weather station type = WOW	<p>Shows the actual wind direction.                      Wind speed and direction exist with two different filtrations. The time constant for the two different filtering's can be set individually.</p>	
<b>21 Filtered wind direction</b> Displayed when weather station type = WOW	<p>Shows the actual filtered wind direction.                      Wind speed and direction exist with two different filtrations. The time constant for the two different filtering's can be set individually.</p>	
<b>22 Pulses/sec. per m/s</b> Displayed when weather station type = WLA 340	<p>Specify the number of pulses per second that corresponds to 1 m/s.                      If sensor type 'WLA 340' is used the value is 2.</p> <p><b>Factory default value:</b> 2</p>	
<b>23 Filter constant</b>	<p>Specify the filter constant (tau) for the wind speed / wind direction.                      Wind speed and direction exists with two different filtrations. The time constant for the two different filtering's can be set individually.</p> <p><b>Factory default value:</b> 5 s</p>	
<b>24 Slow filter constant</b>	<p>Specify the filter constant (tau) for the slow wind speed / slow wind direction.                      Wind speed and direction exists with two different filtrations. The time constant for the two different filtering's can be set individually.</p> <p><b>Factory default value:</b> 10 min.</p>	

<p><b>25 Use RMS in filter</b></p>	<p>Specify if root-mean-square (RMS) is used in the filter.</p> <p><b>Factory default value:</b> No</p>	
<p><b>26 Retransmit time</b></p>	<p>Specify the retransmit interval time for sending unchanged values on the connected field bus module.</p> <p><b>Factory default value:</b> 300 s</p>	
<p><b>27 Data unchanged timeout</b></p>	<p>Specify number of hours when unchanged data is considered an error. If wind speed or wind direction have not changed for this number of hours and error is generated.</p> <p><b>Factory default value:</b> 48 hours</p>	

## View all details

### 9 Power supply

PARAMETER:	DESCRIPTION:	
<p><b>17 Mains status</b></p>	<p>Shows the status of the main power supply.</p> <p><b>OPTIONS:</b></p> <ul style="list-style-type: none"> <li>No mains power</li> <li>OK</li> <li>Warning</li> </ul>	
<p><b>36 Battery status</b></p>	<p>Shows the status of the back-up batteries.</p> <p><b>OPTIONS:</b></p> <ul style="list-style-type: none"> <li>Error</li> <li>OK</li> <li>Charging error</li> </ul>	
<p><b>18 Back-up batteries voltage</b></p>	<p>Shows the actual back-up battery voltage.</p>	
<p><b>19 Power supply voltage</b></p>	<p>Shows the actual power supply voltage.</p>	
<p><b>16 Detailed status</b></p>	<p>Shows the detailed power supply status.</p>	
<p><b>20 Power supply current</b></p>	<p>Shows the actual current drawn from the power supply.</p>	
<p><b>21 Battery temperature</b></p>	<p>Shows the actual temperature of the back-up batteries.</p>	
<p><b>22 Maximum temperature</b></p>	<p>Shows the maximum measured temperature since last reset of the value. The max. value can be reset on acces level 3 and 4.</p>	

## View all details

### 11 Connected WSA 5MC [1..30]

PARAMETER:	DESCRIPTION:	
<p><b>20 No connection to associated WSA 5MC</b></p> <p>Displayed only if connection problem to other WSA 5MC sections.</p>	<p>The associated overall control module is not accessible via any of the CAN buses.</p>	

## View all details

### 11 CAN

PARAMETER:	DESCRIPTION:	
16 MC ID	Configures the ID on the CAN bus of the local WSA 5MC.  <b>Factory default value:</b> -	
19 CAN bus mode	When more WSA 5MC's are associated, they can exchange information. This way it is possible to make a smoke zone master-slave connection. If the mode is set to parallel, the WSA 5MC module will check that all associated devices are accessible via both CAN1 and CAN2. If not an error will be reported. If the mode is set to independent, it is enough that an associated WSA 5MC is accessible via one of the CAN interfaces.  <b>OPTIONS:</b> Parallel bus Independent buses  <b>Factory default value:</b> Parallel bus	
21 CAN 1 connected.	CAN 1 connected.	
17 CAN 2 bitrate.	CAN 2 bitrate.  <b>OPTIONS:</b> 10 kbps 100 kbps  <b>Factory default value:</b> 10 kbps	
20 CAN 2 connected.	CAN 2 connected.	
22 Select CAN for monitoring	The detailed status and error counters will reflect the selected CAN.  <b>OPTIONS:</b> CAN 2 CAN 1	
23 Received frames	Shows the number of received CAN frames.	
24 Transmitted frames	Shows the number of transmitted CAN frames.	
26 Tx queue size (transmission).	Tx queue size (transmission).	
27 Tx discarded (transmission).	Tx discarded (transmission).	
28 Rx discarded (receive).	Rx discarded (receive).	
39 Message pool size	Message pool size	
29 Last error.	Last error.	
30 Receive errors.	Receive errors.	
31 Transmit errors.	Transmit errors.	

<p><b>32 Rx idle time (receive).</b></p>	<p>Rx idle time (receive).</p>	
<p><b>33 Tx idle time (transmission).</b></p>	<p>Tx idle time (transmission).</p>	
<p><b>38 CAN Rx Max Queued</b></p>	<p>Shows the maximum size that the CAN receive queue has had at any time since booting.</p>	
<p><b>35 CAN ID conflict, CAN1</b></p>	<p>The CAN ID of this device appears already to be in use on CAN1. Possible reasons:          1: Two devices have been configured with the same CAN ID.          2: The two CAN interfaces of the same device have been connected together, which is not allowed.</p>	
<p><b>34 CAN ID conflict, CAN2</b></p>	<p>The CAN ID of this device appears already to be in use on CAN2. Possible reasons:          1: Two devices have been configured with the same CAN ID.          2: The two CAN interfaces (CAN1 and CAN2) of the same device have been connected together, which is not allowed.</p>	
<p><b>45 Bus error, CAN1</b></p>	<p>It is not possible to communicate on the bus cable connected to CAN1. Could be a cable problem or a defect controller board.</p>	
<p><b>44 Bus error, CAN2</b></p>	<p>It is not possible to communicate on the bus cable connected to CAN2. Could be a cable problem or a defect controller board.</p>	

## View all details

### 12 Network

PARAMETER:	DESCRIPTION:	
<b>27 Restart to use new ip settings</b> Displayed only if relevant	The system must restart to use the new ip settings. When 'yes' is pressed the system will restart.  <u>Factory default value:</u> 10 0 0 1	
<b>23 DHCP</b>	Select 'Yes' to enable DHCP (automatic IP address) for the Ethernet interface (automatic IP address assignment).  <u>Factory default value:</u> Yes	
<b>16 IP address</b> Displayed only if DHCP disabled	Specify the IP address of the section.  <u>Factory default value:</u> 00 00 00 00	
<b>21 Subnet mask</b> Displayed only if DHCP disabled	Specify the subnet mask of the 20A section.  <u>Factory default value:</u> 255 255 255 0	
<b>22 Default gateway</b> Displayed only if DHCP disabled	Specify the default gateway of the 20A section.  <u>Factory default value:</u> 10 0 0 1	
<b>24 IP address</b>	Shows the IP address of the section.  <u>Factory default value:</u> 00 00 00 00	
<b>25 Subnet mask</b>	Shows the subnet mask of the 20A section.  <u>Factory default value:</u> 255 255 255 0	
<b>26 Default gateway</b>	Shows the default gateway of the 20A section.  <u>Factory default value:</u> 10 0 0 1	
<b>17 Power setting</b>	Specify the power settings for the network interface. Auto. = when 230V mains voltage the gate is automatically on. In battery mode, this is disabled to save power. ON = the network connection is always on. OFF = network connection deactivated.  <u>OPTIONS:</u> Auto. On Off  <u>Factory default value:</u> Auto.	
<b>18 Power state network</b>	Shows the actual power state of the network interface.	
<b>19 MAC (upper)</b>	Shows the first three bytes of the Ethernet MAC address.	
<b>20 MAC (lower)</b>	Shows the last three bytes of the Ethernet MAC address.	

## View all details

### 10 Slots [1..5]

PARAMETER:	DESCRIPTION:	
<b>16 Hardware type</b>	Shows the actual hardware type of the module in the slot.	
<b>17 New hardware type</b> Displayed only if module type has changed	Shows that a new module has been detected in the slot. This is shown as an error until the new type has been confirmed.	
<b>18 Confirm new hardware type</b> Displayed only if module type has changed	Shows if new module has been detected in the slot. This is shown as an error until the new type has been confirmed.	
<b>19 Firmware version</b> Displayed only for 5MC module (Slot 2)	Shows the software version of the board.	
<b>22 Build time</b> Displayed only for 5MC module (Slot 2)	Shows the actual release time and date of the WSA 5MC software.	
<b>20 5PS, 5IO, 5SM, 5S5, 5ML Firmware version</b> Only used in Slot 1,3,4 og 5	Shows the firmware version of the module in the Slot. If the firmware is too old this is shown as an error.	
<b>21 Temperature</b> Displayed only for 5IO module	Shows the actual temperature measured on the WSA 5IO board.	
<b>24 Maximum temperature</b> Displayed only for 5IO module	Shows the maximum measures temperature since last reset of the value.	
<b>23 Comm. error rate [per 1000]</b> Only used in Slot 1,3,4 og 5	Shows the error rate of the communication between the slots.	
<b>32 Release candidate</b> Displayed only for 5SM module	Release candidate	

## View all details

### 13 Fieldbus [Module]

PARAMETER:	DESCRIPTION:	
16 Module type	<p>Show the connected field bus module type. Some types of modules need bus power to be detected.</p> <p><b>OPTIONS:</b></p> <ul style="list-style-type: none"> <li>Empty</li> <li>KNX</li> <li>KNX, no bus or ETS</li> <li>Unknown module</li> </ul>	
18 Power setting	<p>Specify the power settings for the field bus interface. 'Auto' means that the module is powered off if there is no mains power. 'On' means that the module is always on. 'Off' means that the module is always off.</p> <p><b>OPTIONS:</b></p> <ul style="list-style-type: none"> <li>Auto.</li> <li>On</li> <li>Off</li> </ul> <p><b>Factory default value:</b> Auto.</p>	
19 ETS application version	Shows the version of the ETS application.	
20 Physical address	Shows the physical address assigned by ETS.	

## View all details

### 13 Fieldbus, Object [1..13]

PARAMETER:	DESCRIPTION:	
16 Value	Shows the status of the fields bus connection.	
17 Direction	Shows the direction of the field bus link.  <b>OPTIONS:</b> None Input Output	
18 <b>Controlled motor groups</b> Displayed only if object direction in input	Specify which motor group/groups the input shall control. The input can either control smoke zones OR motor groups. When motor group is chosen the option for controlling smoke zones is lost.  <b>Factory default value:</b> None	
19 <b>Function in controlled motor groups</b> Displayed only if object direction in input	Specify the function that the input applies to the associated motor groups.  <b>OPTIONS:</b> - Open Close Stop Safety Comfort open Comfort step Auto. position Hand position  <b>Factory default value:</b> None	
20 <b>Target motor group output</b> Displayed only if object direction in input	Shows the actual output that the input applies to the motor groups.	
21 <b>Controlled by smoke zones</b> Displayed only if object direction in output	Specify which smoke zones that controls the output. One or more smoke zones can be selected. The logic function that is applied between the smoke zones can be configured.  <b>Factory default value:</b> None	

<p><b>22 Smoke zone output functions</b></p> <p>Displayed only if the output is linked to one or more smoke zones.</p>	<p>Specify the functions in the smoke zones, that controls the output.</p> <p><b>OPTIONS:</b></p> <ul style="list-style-type: none"><li>-</li><li>Line A</li><li>Line B</li><li>Reset</li><li>Line C</li><li>Line D</li><li>Line E</li><li>Line F</li><li>Any line</li><li>Any error</li></ul> <p><b>Factory default value:</b> None</p>	
<p><b>23 Source smoke zone(s) output</b></p> <p>Displayed only if the output is linked to one or more smoke zones.</p>	<p>Shows the actual input from the associated smoke zones.</p> <p><b>OPTIONS:</b></p> <ul style="list-style-type: none"><li>Line A</li><li>Line B</li><li>Reset</li><li>Line C</li><li>Line D</li><li>Line E</li><li>Line F</li><li>Comfort stop</li><li>Comfort open</li><li>Comfort close</li><li>Comfort safety</li><li>Line A error</li><li>Line B error</li><li>Line C error</li><li>Line D error</li><li>Line E error</li><li>Line F error</li><li>Break glass unit error</li><li>Motor group error</li><li>Master slave error</li><li>PSU error</li><li>PSU warning</li><li>Weather data error</li><li>Local 'Safety'</li><li>System error</li></ul>	
<p><b>24 Controlled by motor groups</b></p> <p>Displayed only if object direction in output</p>	<p>Specify which motor groups that controls the output. One or more motor groups can be selected. The logic function that is applied between the motor groups can be configured.</p> <p><b>Factory default value:</b> None</p>	

<p><b>25 Motor group output function</b></p> <p>Displayed only if the output is linked to one or more motor group(s)</p>	<p>Specify the function in the associated motor groups that controls the output.</p> <p><b>OPTIONS:</b></p> <ul style="list-style-type: none"> <li>Motor line error</li> <li>Closed</li> <li>Not closed</li> <li>High wind speed</li> <li>Safety active</li> <li>Open</li> <li>Alarm</li> <li>-</li> </ul> <p><b>Factory default value:</b> None</p>	
<p><b>26 Source motor group(s) output</b></p> <p>Displayed only if the output is linked to one or more motor group(s)</p>	<p>Shows the actual input from the associated motor group(s).</p>	
<p><b>27 Logic function</b></p> <p>Displayed only if object direction in output</p>	<p>Specify the logic function that is applied between the smoke zones or motor groups.</p> <p><b>OPTIONS:</b></p> <ul style="list-style-type: none"> <li>AND</li> <li>OR</li> </ul> <p><b>Factory default value:</b> OR</p>	
<p><b>28 Status when active</b></p> <p>Displayed only if object direction in output</p>	<p>Specify if an active output result should result in the physical output being 'on' or 'off'. This can be used to invert the output result.</p> <p><b>OPTIONS:</b></p> <ul style="list-style-type: none"> <li>Off</li> <li>On</li> </ul> <p><b>Factory default value:</b> On</p>	
<p><b>29 Retransmit time</b></p>	<p>Specify the retransmit interval time for sending unchanged values on the field bus.</p> <p>0 = disables retransmission of unchanged values.</p> <p><b>Factory default value:</b> 300 s</p>	

## View all details

### 16 BACnet IP [Common]

PARAMETER:	DESCRIPTION:	
16 BACnet IP UDP port number	Specify the UDP port for BACnet IP. The standard port is 47808.  <u>Factory default value:</u> 47808	
17 BACnet IP device instance	Specify the device instance of the BACnet IP server.  <u>Factory default value:</u> 1	
18 Actual position COV increment	Specify the COV increment for the actual position input objects.  <u>Factory default value:</u> 1%	
19 Actual max. position COV increment	Specify the COV increment for the actual maximum position input objects.  <u>Factory default value:</u> 1%	
20 Wind speed COV increment	Specify the COV increment for the wind speed input objects.  <u>Factory default value:</u> 0.1 m/s	
21 Wind direction COV increment	Specify the COV increment for the wind direction input objects.  <u>Factory default value:</u> 1°	
22 Register as 'foreign device'	Specify if the 5MC must register as 'foreign device'. When enabled the 5MC will register as 'foreign device'. The registration interval is 1/3 of the 'time-to-live' time.  <u>Factory default value:</u> No	
23 IP address of 'BBMD' Displayed only if Registered as 'foreign device'	Specify the IP address of the 'BBMD'.  <u>Factory default value:</u> 0. 0. 0. 0	
24 BACnet UDP port of BBMD Displayed only if Registered as 'foreign device'	Specify the UDP port of the BBMD. The standard port is 47808.  <u>Factory default value:</u> 47808	
25 Register as 'foreign device' 'Time-to-Live' value Displayed only if Registered as 'foreign device'	Specify the 'Time-to-Live' value. The 5MC will register with an interval of 1/3 of the 'time-to-live' time. If the value is 0 the 5MC will only register once. The 'time-to-live' will be the 'grace period' of 30 seconds.  <u>Factory default value:</u> 60 min.	

## View all details

### 16 BACnet IP, Object [1..13]

PARAMETER:	DESCRIPTION:	
16 Value	Shows the status of the fields bus connection.	
17 Direction	Shows the direction of the field bus link.  <b>OPTIONS:</b> None Input Output	
18 Control motor groups Displayed only if object direction in input	Specify which motor group(s) the input shall control. The input can either control smoke zones OR motor groups. When motor group is chosen the option for controlling smoke zones is lost.  <b>Factory default value:</b> None	
19 Function in controlled motor groups Displayed only if object direction in input	Specify the function that the input applies to the associated motor groups.  <b>OPTIONS:</b> - Open Close Stop Safety Comfort open Comfort step Auto. position Hand position  <b>Factory default value:</b> 1%	
20 Target motor group output Displayed only if object direction in input	Shows the actual output that the input applies to the motor groups.	
21 Controlled by smoke zones Displayed only if object direction in output	Specify which smoke zones that controls the output. One or more smoke zones can be selected. The logic function that is applied between the smoke zones can be configured.  <b>Factory default value:</b> None	

<p><b>22 Smoke zone output functions</b></p> <p>Displayed only if the output is linked to one or more smoke zones.</p>	<p>Specify the functions in the smoke zones, that controls the output.</p> <p><b>OPTIONS:</b></p> <ul style="list-style-type: none"> <li>-</li> <li>Line A</li> <li>Line B</li> <li>Reset</li> <li>Line C</li> <li>Line D</li> <li>Line E</li> <li>Line F</li> <li>Any line</li> <li>Any error</li> </ul> <p><b>Factory default value:</b> None</p> 
<p><b>23 Source smoke zone(s) output</b></p> <p>Displayed only if the output is linked to one or more smoke zones.</p>	<p>Shows the actual input from the associated smoke zone(s).</p> <p><b>OPTIONS:</b></p> <ul style="list-style-type: none"> <li>Line A</li> <li>Line B</li> <li>Reset</li> <li>Line C</li> <li>Line D</li> <li>Line E</li> <li>Line F</li> <li>Comfort stop</li> <li>Comfort open</li> <li>Comfort close</li> <li>Comfort safety</li> <li>Line A error</li> <li>Line B error</li> <li>Line C error</li> <li>Line D error</li> <li>Line E error</li> <li>Line F error</li> <li>Break glass unit error</li> <li>Motor group error</li> <li>Master slave error</li> <li>PSU error</li> <li>PSU warning</li> <li>Weather data error</li> <li>Local 'Safety'</li> <li>System error</li> </ul> 
<p><b>24 Controlled by motor groups</b></p> <p>Displayed only if object direction in output</p>	<p>Specify which motor groups that controls the output. One or more motor groups can be selected. The logic function that is applied between the motor groups can be configured.</p> <p><b>Factory default value:</b> None</p> 

<p><b>25 Motor group output function</b> Displayed only if the output is linked to one or more motor group(s)</p>	<p>Specify the function in the associated motor groups that controls the output.</p> <p><b>OPTIONS:</b></p> <ul style="list-style-type: none"> <li>Motor line error</li> <li>Closed</li> <li>Not closed</li> <li>High wind speed</li> <li>Safety active</li> <li>Open</li> <li>Alarm</li> <li>-</li> </ul> <p><b>Factory default value:</b> None</p>	
<p><b>26 Source motor group(s) output</b> Displayed only if the output is linked to one or more motor group(s)</p>	<p>Shows the actual input from the associated motor group(s).</p>	
<p><b>27 Logic function</b> Displayed only if object direction in output</p>	<p>Specify the logic function that is applied between the smoke zones or motor groups.</p> <p><b>OPTIONS:</b></p> <ul style="list-style-type: none"> <li>AND</li> <li>OR</li> </ul> <p><b>Factory default value:</b> OR</p>	
<p><b>28 Status when active</b> Displayed only if object direction in output</p>	<p>Specify if an active output result should result in the physical output being 'on' or 'off'. This can be used to invert the output result.</p> <p><b>OPTIONS:</b></p> <ul style="list-style-type: none"> <li>Off</li> <li>On</li> </ul> <p><b>Factory default value:</b> On</p>	

## View all details

### 1 Login

PARAMETER:	DESCRIPTION:	
<p><b>18 PIN 3: Configuration</b> (Require min Access level 3)</p>	<p>Specify the PIN code for access to level 3. Level 3 gives access to configuration, see the status and for manual operation.</p> <p><b>Factory default value:</b> ****</p>	
<p><b>21 Log out time-out</b> (Require min Access level 3)</p>	<p>Configures the time-out for an automatic logout. Everytime the display is touched the logout timer is restarted. After the time-out it is needed to log in again.</p> <p><b>Factory default value:</b> 300 s</p>	

## View all details

### 14 Configuration files, SD [1..24]

PARAMETER:	DESCRIPTION:	
<b>16 Ongoing operation</b> Displayed only if relevant	Appears if the system is in the process of writing / reading the selected configuration file.  <u>OPTIONS:</u> Idle Saving ... Copying ...	
<b>17 Status</b>	Shows status for the chosen configuration file.  <u>OPTIONS:</u> File exists Invalid contents No file No disk Unknown error	
<b>18 Time stamp</b> Displayed only if the file exists	Shows the time for the last change in the configuration file.	
<b>19 Command</b> Displayed only if the file exists	Specify if command are to given to manage configuration files.  <u>OPTIONS:</u> No command Save current Load from file Copy SD to USB Copy USB to SD	

## View all details

### 15 Configuration files, USB [All]

PARAMETER:	DESCRIPTION:	
<b>17 Power setting</b>	Specify the power settings for the USB interface. Auto. = when 230V mains voltage the gate is automatically on. In battery mode, this is disabled to save power. ON = the USB connection is always on. OFF = USB connection deactivated.  <u>OPTIONS:</u> Auto. On Off  <u>Factory default value:</u> Auto.	
<b>18 Power state USB</b>	Shows the actual power state of the USB interface.	

## View all details

### 15 Configuration files, USB [1..24]

PARAMETER:	DESCRIPTION:	
<b>16 Ongoing operation</b> Displayed only if relevant	Appears if the system is in the process of writing / reading the selected configuration file.  <u><b>OPTIONS:</b></u> Idle Saving ... Copying ...	
<b>17 Status</b>	Shows status for the chosen configuration file.  <u><b>OPTIONS:</b></u> File exists Invalid contents No file No disk Unknown error	
<b>18 Time stamp</b> Displayed only if the file exists	Shows the time for the last change in the configuration file.	
<b>19 Command</b> Displayed only if the file exists	Specify if command are to given to manage configuration files.  <u><b>OPTIONS:</b></u> No command Save current Load from file Copy SD to USB Copy USB to SD	

## View all details

### 0 System

PARAMETER:	DESCRIPTION:	
<b>29 Configuration chip (NVM)</b> Displayed only if relevant	This chip contains the saved configuration. In case of a hardware error with this chip, the configuration cannot be saved.	
<b>40 Base configuration error</b> Displayed only if Error in Configuration	The base region of the configuration memory has a CRC error. There is a risk that a production parameter is incorrect. There is no recovery from this error. Please contact your supplier.	
<b>41 Configuration error</b> Displayed only if Error in Configuration	The configuration memory has a CRC error. The most secure recovery is to restore a backup configuration or reset the configuration to factory defaults using the configuration command and then reconfigure the WSA 5MC from scratch. Alternatively, please check that all configuration values are correct, and clear this message, which will also reset the CRC value of the configuration.	
<b>42 Backup configuration error</b> Displayed only if Error in Configuration	The backup configuration memory has a CRC error. The most secure recovery is to make a new backup using the configuration command. Alternatively, clear this message, which will also reset the CRC value of the backup configuration. Some values in the backup configuration may then be incorrect.	
<b>22 Language</b>	Specify the language to be used in the touch screen.  <u><b>OPTIONS:</b></u> English Danish German  <u><b>Factory default value:</b></u> English	
<b>35 Backup time stamp</b>	Shows the time stamp. The time stamp is updated each time the configuration is saved as a backup.	
<b>34 Unsaved changes</b>	Shows if there have been changes to the configuration since the last backup was saved. If so, this value will be 'Yes'.  <u><b>OPTIONS:</b></u> No Yes	
<b>23 Configuration command</b>	This option can be used to reset the device to factory default configuration. Save a configuration backup of the actual configuration or restore the configuration backup.  <u><b>OPTIONS:</b></u> Reset to factory defaults Load backup Save backup No command	
<b>44 Disk operation</b> Displayed only if relevant	Shows any ongoing operation on the SD card and USB stick.	

<p><b>45 Copy log</b></p>	<p>Set this to 'Yes' to copy all log files from the SD card to the USB stick.</p>	
<p><b>27 Time</b></p>	<p>Set the time of the internal clock.</p>	
<p><b>28 Date</b></p>	<p>Set the date in the internal clock.</p>	
<p><b>55 Reset service timer</b> (Require min Access level 3)</p>	<p>Sets the service date to the current date.</p>	
<p><b>56 The interval between service</b> (Require min Access level 3)</p>	<p>Sets the interval between service. After this period is passed a message dialog will be shown and the yellow LED on the break glass units will flash. If the value is set to 0 the service interval function is disabled.</p> <p><b>Factory default value:</b> 0 days</p>	
<p><b>57 Time for service</b></p>	<p>Shows if it is time for service.</p> <p><b>OPTIONS:</b> No Yes</p>	
<p><b>65 Disable acoustic service indication</b> (Require min Access level 3)</p>	<p>Configures that the panel will not give an acoustic indication when it is time for service. Only a visual notification is shown.</p> <p><b>OPTIONS:</b> No Yes</p> <p><b>Factory default value:</b> No</p>	
<p><b>26 LCD rotate view</b></p>	<p>Specify if the picture on the touch screen should rotate 180 degrees. This can be used in combination with eg. turning the touch screen upside-down to optimise the viewing quality.</p> <p><b>OPTIONS:</b> No Yes</p> <p><b>Factory default value:</b> No</p>	
<p><b>46 Enable parameter set from network</b></p>	<p>Enable writing parameter values from ethernet If 'False' it is only possible to read parameter values from ethernet.</p> <p><b>OPTIONS:</b> No Yes</p> <p><b>Factory default value:</b> Yes</p>	
<p><b>61 Enable remote control</b> (Require min Access level 3)</p>	<p>Enable remote control of the system by using the WMaFlexiSmokeRemote PC program.</p> <p><b>OPTIONS:</b> No Yes</p> <p><b>Factory default value:</b> No</p>	

<p><b>62 Remote control TCP port</b> (Require min Access level 3)</p>	<p>Configures the TCP port used for remote control. The default port no. is 55555.</p> <p><b>Factory default value:</b> 55555</p>	
<p><b>30 Show disabled instances</b></p>	<p>Specify if disabled / non-existing items should be shown in the overview lists.</p> <p><b>OPTIONS:</b> No Yes</p> <p><b>Factory default value:</b> No</p>	
<p><b>32 Number of watchdog reboots</b></p>	<p>Number of watchdog reboots</p>	
<p><b>36 Program build CRC</b></p>	<p>Shows the program memory CRC at build time.</p>	
<p><b>37 Program runtime CRC</b> Displayed only if CRC Error</p>	<p>Shows the program memory CRC at calculated at runtime.</p>	
<p><b>38 Configuration CRC error</b> Displayed only if CRC Error</p>	<p>Shows if there is an configuration CRC error.</p>	
<p><b>50 Enable 'no accumulator'</b></p>	<p>Enable running the system without accumulator.</p> <p><b>Factory default value:</b> No</p>	