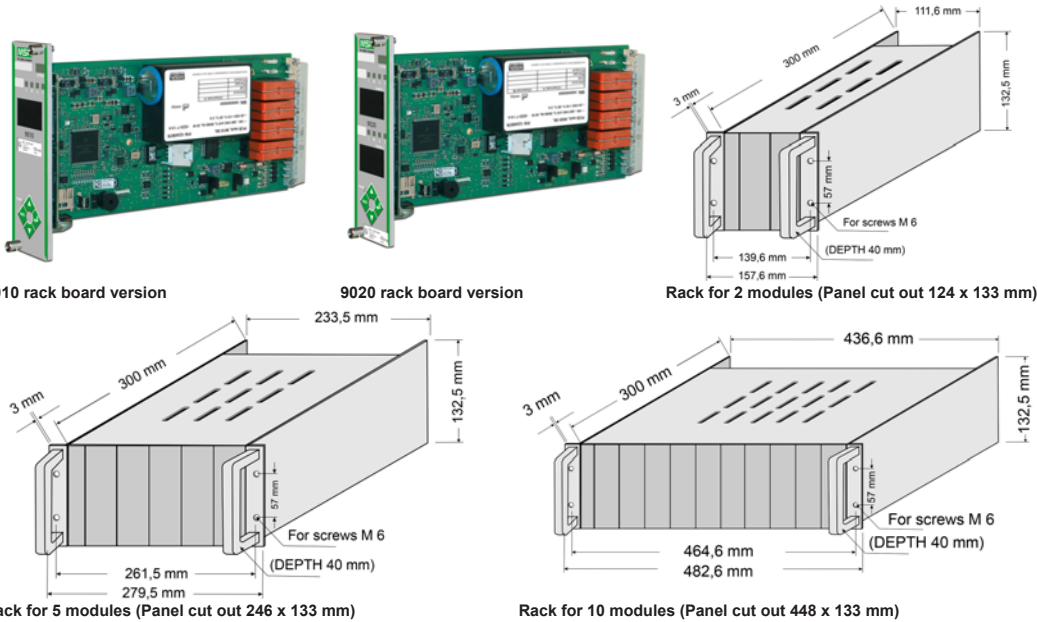


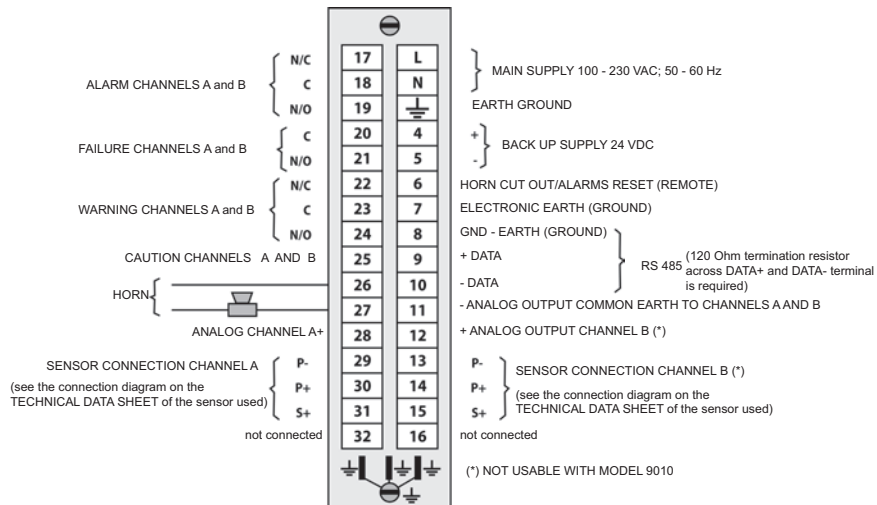
WARNING

The quick start guide does not replace the operating manual. It is imperative that the operating manual be read and observed when using the device. In particular, the safety instructions, as well as the information for use, operation and maintenance of the device, must be carefully read and observed.

19 inch Rack Version – Mechanical installation



19 inch rack – Module Backplane Terminal Connection



Wall Mount version – Mechanical Installation

Wall mounted unit installation instruction:

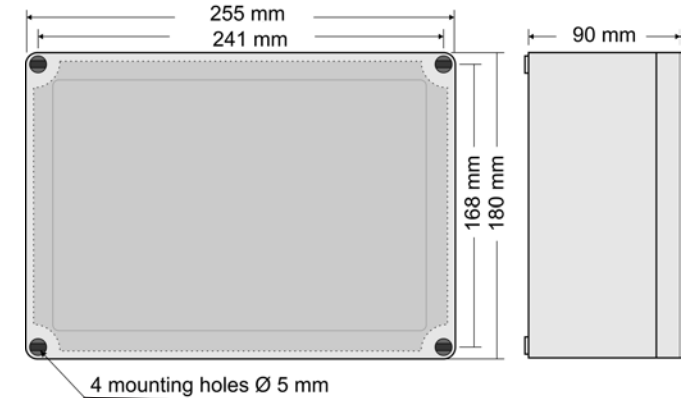
- (1) Drill the holes as shown below for the four fixing screws.
- (2) Remove the housing lid carefully. Watch the display cable being connected to the lid inside.
- (3) Fix the unit to the wall, by appropriate screws (M5 screws or 5 mm SPAX).
- (4) Close the lid with existing screws.



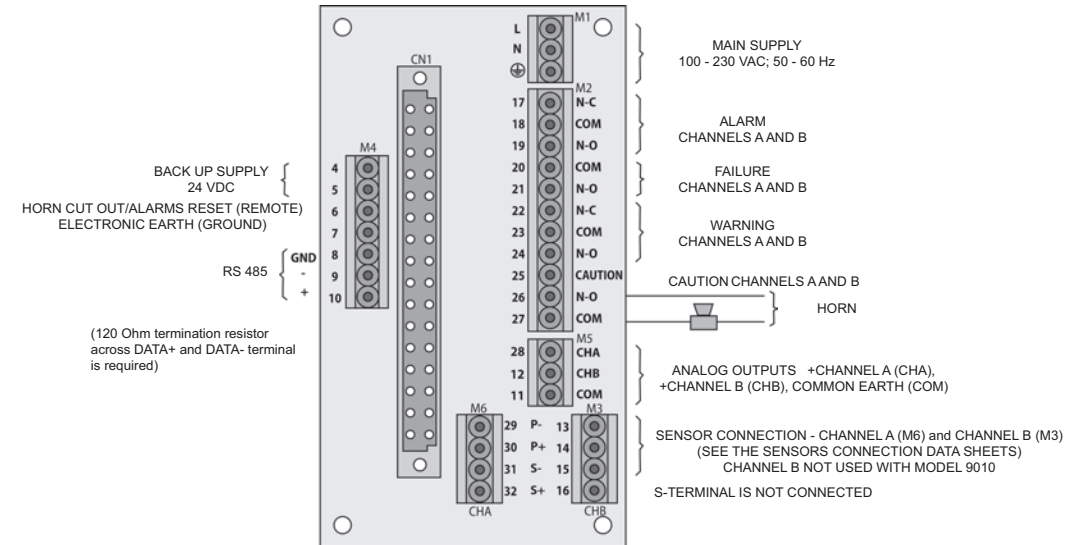
Wall mount, 9010 SIL



Wall mount, 9020 SIL



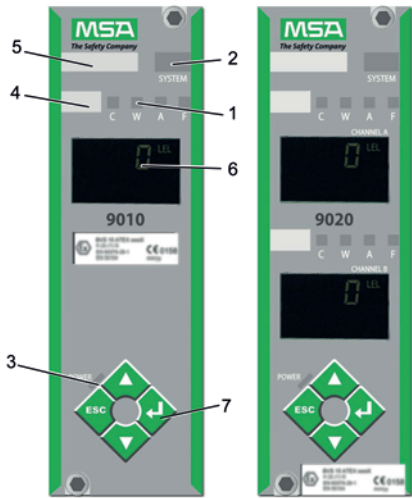
Wall Mount version – Terminal Connection



WARNING

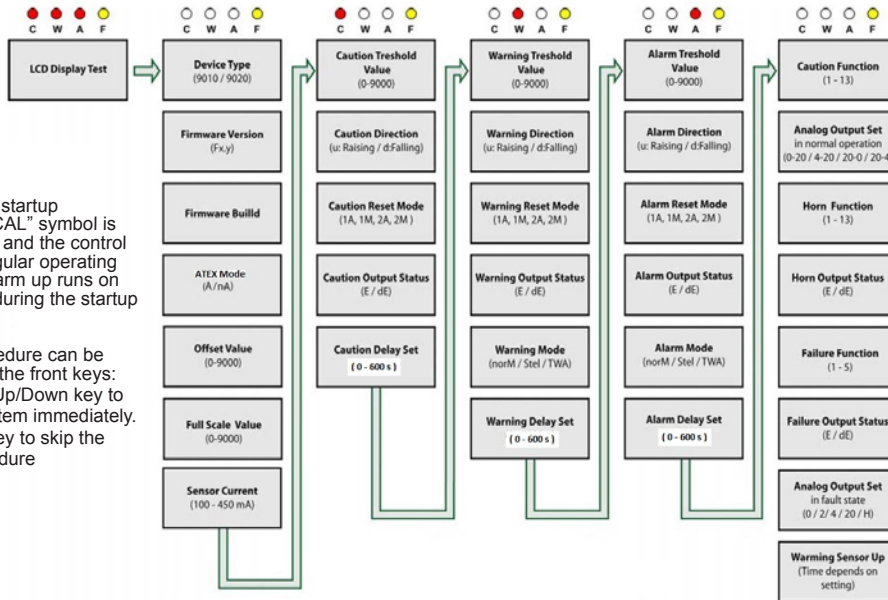
When opening the control unit housing, there is a risk of high voltage danger from relay contacts and main power supply. Only authorised persons should open the control unit when it is switched off and secured against unintentional switch-on. Before opening the housing, it must be confirmed that power is off for all poles.

Front Panel and Display Information



- | | |
|-------------------------------|------------------------|
| 1 Status LEDs (red/yellow) | 6 Display |
| 2 System Failure LED (yellow) | 7 Keypad |
| 3 POWER LED (green) | 8 Measured value |
| 4 Gas Information Tag | 9 Measuring units |
| 5 Site Information Tag | 10 Control Unit Status |

Startup



At the end of the startup procedure, the "CAL" symbol is shortly displayed and the control unit starts the regular operating mode. Sensor warm up runs on the background during the startup procedure.

The startup procedure can be accelerated with the front keys:

- Press Enter/Up/Down key to display next item immediately.
- Press ESC key to skip the startup procedure

Failure Identification Codes

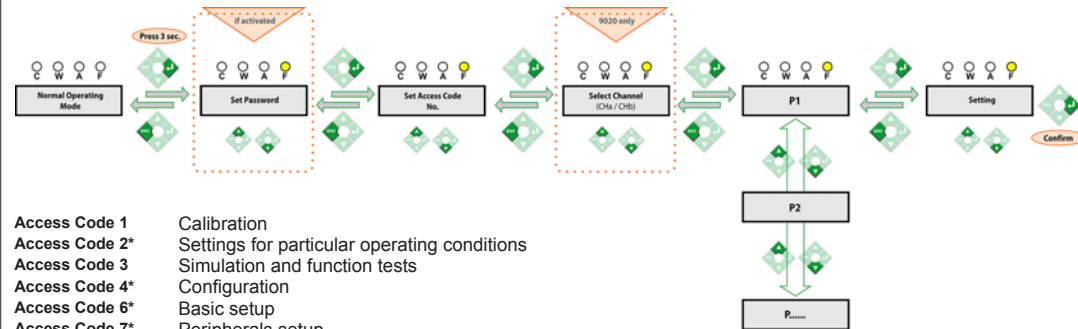
Code	Description	Code	Description
F1.1*	Detector supply current is too high	F6.2	External watchdog failure
F1.2*	Detector supply voltage is too high	F7.1*	Digital output failure
F1.3	Possible shortcut on detector side	F7.2	Digital output failure
F1.4*	Default configuration has been loaded	F7.3	Digital output failure
F1.5*	Transmitter does not provide a constant current	F8.1	Selftest failure
F1.6*	Transmitter consumes less current than it is set in Menu 4/P2.	F8.2	Selftest RAM 1 failure
F1.7	Sensor current is turned off	F8.3	Selftest RAM 2 failure
F1.8	Possible shortcut on detector side	F8.4	Selftest Flash failure
F5.1	ADC convertor failure	F8.5	Selftest configuration failure
F5.2	ADC Backup convertor failure	F8.6	Selftest CPU failure
F5.3	ADC convertor failure	F8.7	Selftest clock failure
F5.4	Sensor current cannot be set	F9.1	Settings were changed due ATEX mode
F5.5	Testing voltage is too low	F9.2	Factory default values were loaded
F5.6	Testing voltage is too high	F9.3	User default values were loaded
F5.7	Transmitter supply voltage too high	F9.4	Factory/User default values cannot be loaded
F5.8	Transmitter supply voltage too low	F9.5	User default values not saved
F6.1	External watchdog was triggered	F9.6	Password not accepted

*Failure message must be acknowledged by operator pressing UP or ENTER key on the front panel

Error Codes

Code	Description	Code	Description
E1	Sensor sensitivity is too low	-d1	Input signal is below limit
E2	Sensor sensitivity is too high	EEEE	Input signal is over measuring range
E3	Sensor sensitivity is reduced (soon replacement must be expected)	LOU1*	External 24 VDC is too low
E4	Detector signal is out of optimal range (>300 mV)	LOU2*	Internal 24 VDC is too low
E10	Same value for ZERO and SPAN has been set	LOU3*	Controller supply is too high
		LOU4*	Internal temperature is too low
		LOU5*	Internal temperature is too high

Menu Access



- Access Code 1 Calibration
- Access Code 2* Settings for particular operating conditions
- Access Code 3 Simulation and function tests
- Access Code 4* Configuration
- Access Code 6* Basic setup
- Access Code 7* Peripherals setup
- Access Code 52* Input and Output Setup
- Access Code 53* Default settings
- Access Code 223 Password setup

*Access Code 123 is required

Refer to the manual for detailed Access Code functions description.

NOTE: Please contact your local MSA representative if you have a problem with the unit setup or testing.