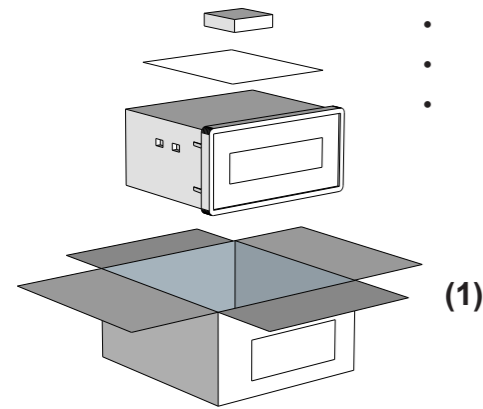


Quick Installation Guide Operator panel HM1

Packaging contents



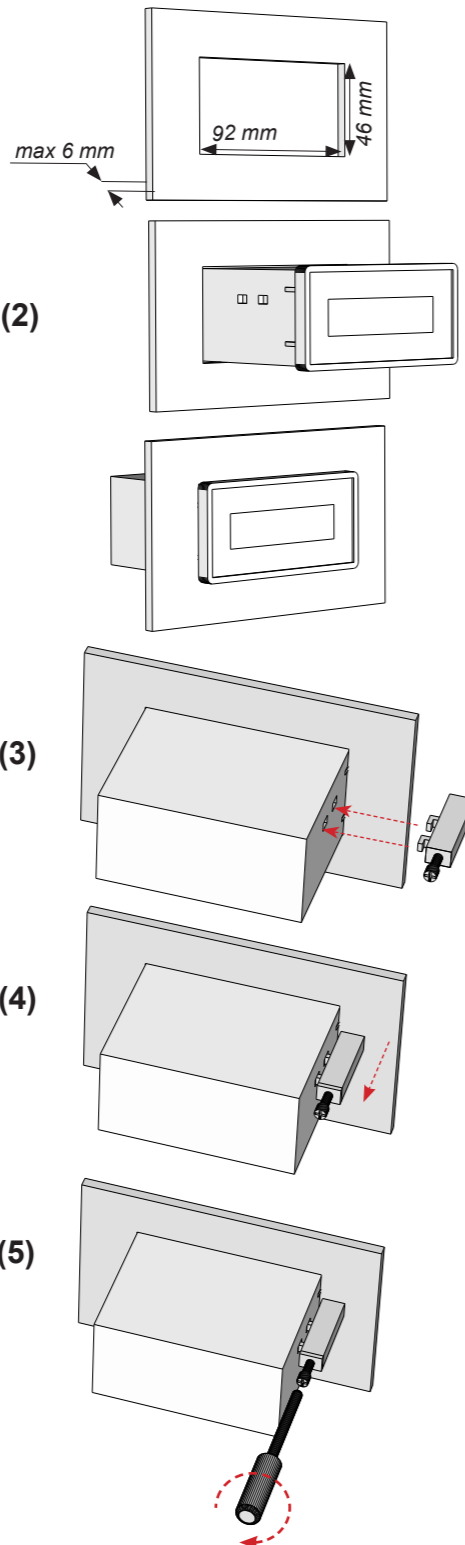
- HM1 operator panel.
- The present document.
- Fastening accessories.

Mechanical Installation

→ Perform as first operation all electrical connections of HM1. (See "Electrical connections" section).

→ The connectors are located on the rear face of the product and may be difficult to operate with HM1 fixed to the electrical panel.

1. Prepare a housing in the panel with the size indicated in the figure. Warning: the minimum housing depth must be suitable to contain the terminal blocks and the USB connector.
2. Insert HM1 in the panel.
3. Assembly the two inserts with fixing screws laterally in the four outer holes of the product.
4. House the inserts, performing a movement towards the rear side of the product (in the direction of the arrow). A click ensures the insert clamping.
5. For the final fixing, tighten the two lateral screws ensuring thus HM1 to the panel.



Electrical connections

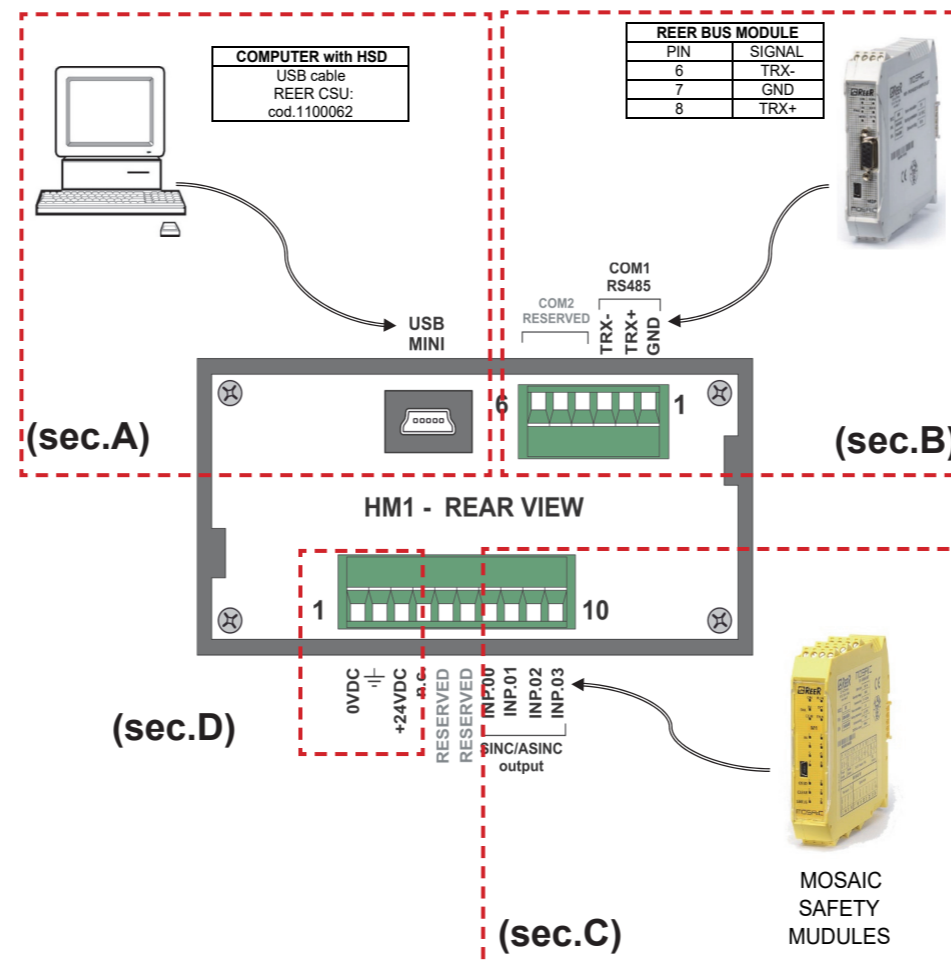
Cautions

- Perform connection to the ground of the electrical panel which houses HM1 before all other connections.
- Install the unit in an enclosure with a protection class of at least IP54.
- Connect the unit when it is not powered.
- The supply voltage to the units must be 24Vdc +/-20% (PELV, in compliance with the standard EN 60204-1 (Chapter 6.4)).
- Do not use HM1 to supply external devices.
- The same ground connection (0VDC) must be used for all system components.

Cautions about connection cables

- Wire size range: 0,25±1 mm².
- We recommend the use of separate power supplies for the unit and for other electrical power equipment (electric motors, inverters, frequency converters) or other sources of disturbance.

→ The communication with Mosaic System can be implemented using the communication line RS485 present on the Bus Mosaic modules (Sect. B) or through connection with the outputs OUT_STATUS (1 to 4 max) present on the modules Mosaic with outputs (par. C).



(A) USB MINI rear connector: PC connection with USB cable

The HM1 panel includes a mini USB for connection to a Personal Computer where the ReeR HSD configuration SW resides (use ReeR USB cable CSU: cod.1100062).

→ The configuration SW and the technical manual can be downloaded from the internet site www.reer.it, section "Download".

(B) 6-way Rear Terminal Block: BUS modules connection

BUS MODULES TERMINAL BLOCK		HM1 10-WAY REAR TERMINAL BLOCK		
PIN		PIN	SIGNAL	DESCRIPTION
6	⇒	3	TRX-	RS485
7	⇒	1	GND	
8	⇒	2	TRX+	

(C) 10-way Rear Terminal Block: M1, M1802, MO2, MO4, MOR4S8, MOS8, MOS16 connection

For the connection of the modules, refer to the MOSAIC safety manual contained in cdrom ReeR "MSD" (cod.8545003) section "ELECTRICAL CONNECTIONS".

- Please note that the signals to be connected are the "OUT_STATUS" (maximum number of connectable OUT_STATUS = 4).
- These signals are connected to the inputs INP.00, INP.01, INP.02, INP.03 of HM1. As indicated in the following table, the signals are wired into the rear terminal 10-way (terminals 7, 8, 9, 10).

→ The same ground connection (0VDC) must be used for all system components.

MOR4S8 -> HM1 connection example

MOR4S8 TERMINAL BLOCK		HM1 10-WAY REAR TERMINAL BLOCK			
PIN	SIGNAL	PIN	SIGNAL	DESCRIPTION	
-	-	1	0VDC		
-	-	2			
-	-	3	+24VDC		
-	-	4	n.c.		
-	-	5	RESERVED		
-	-	6	RESERVED		
				Asynchronous Connection	Synchronous Connection
17	OUT_STATUS1	7	INP.00	DATA.770	DATA.768
18	OUT_STATUS2	8	INP.01	DATA.771	
19	OUT_STATUS3	9	INP.02	DATA.772	
20	OUT_STATUS4	10	INP.03	DATA.773	DATA.769

(D) 10-way Rear Terminal Block: HM1 power supply

HM1 10-WAY REAR TERMINAL BLOCK		
PIN	SIGNAL	DESCRIPTION
1	0VDC	0VDC power supply
2		Ground connection
3	24VDC	24VDC power supply