

MF_X_4 TERMINAL PRO

The powerful MF_X_4 measurement data acquisition system meets the highest standards for flexible and reliable calibration-compliant measurement, mixing and control of processes in the handling of liquids, especially mineral oils. With more than 30 years of operating experience and over 18,000 installations, the fourth generation combines many years of industry experience with state-of-the-art technologies and communication standards.

MF_X_4 TERMINAL PRO

MF_X_4 Terminal PRO [Ex] housing.

The MF_X_4 Terminal Pro is the advanced version of the human-machine interface (HMI) of the MF_X_4 device family for use in Zone 1 hazardous areas, which is used to communicate with the MF_X_4 Controller, other suitable system participants or connected host systems such as SCADA or TAS systems.

For optimum usability, it is equipped with a configurable, high-contrast, full-colour display and offers multilingual user guidance and the display of all process data from the connected system.

The MF_X_4 Terminal Pro meets the high requirements for readability in difficult operating environments with its 10.4" colour display and the ability to display process data in different font sizes.

All MF_X_4 systems are easy to integrate, quick to configure and can be remotely maintained during operation thanks to their support for a wide range of protocols and communication standards. To significantly expand the range of possible applications, the MF_X_4 measurement data acquisition system features a distributed architecture of central computing and decentralised operating units.

The alphanumeric keyboard of the MF_X_4 Terminal Pro is also equipped with maskable function keys for host computer operation. This allows the display to be individually configured for a wide range of applications.

With direct support for the MF_X_4 RFID card reader, its TCP/IP connection and the optionally available control inputs and outputs, the MF_X_4 Terminal Pro is also ideally equipped for use as a separate access control system, for example for gate entry and exit at loading terminals.



↑ MF_X_4 Terminal PRO with RFID reader



MFX_4 TERMINAL PRO

TECHNICAL DATA / FEATURES

Approvals

- ATEX 2014/34/EU
- Various other national approvals

Device identification

- II 2 G Ex d[ia/ib] IIB T5 (Housing)
- II 2 G Ex ia IIB T4 (Keyboard)
- II (2) G [Ex ia] IIB (Isolating Device)

Operating temperature

- -20 °C ... +40 °C
(extended temperature range on request)

Supply voltage

- 24 V_{DC} ±10 % or 100 V_{AC}... 240 V_{AC} ±10 % 50/60 Hz
P_{typ} = 15 W P_{max} = 40 W

Keyboard

- Membrane keyboard
- Mechanical keyboard (weatherproof)

Interfaces

- 1 x CAN-Bus
- 1 x RS232
- 1 x RS485
- 1 x Ethernet [TCP/IP]

I/Os

- 4 x digital inputs (potentially isolated)
- 4 x digital outputs (potentially isolated)
- Auxiliary voltage 12 VDC (potentially isolated)

Housing

- W 350 mm x H 290 mm x D 142 mm, IP65

Weight

- 25 kg

Storage temperature

- -25 °C...+75 °C

Display

- Large colour graphic display, XGA (1024 x 768 Pixel)
LED backlighting

Card reader

- Support for the external card reader MFX_4 RFID
- Transponder [Proximity] 13.56 MHz

Protocols

- 1x CAN-Bus
- 1 x Ethernet [TCP/IP]

Multi language capability

- German, English, French, Spanish, Polish, Russian,
Hungarian, Slovenian, Slovak, Czech



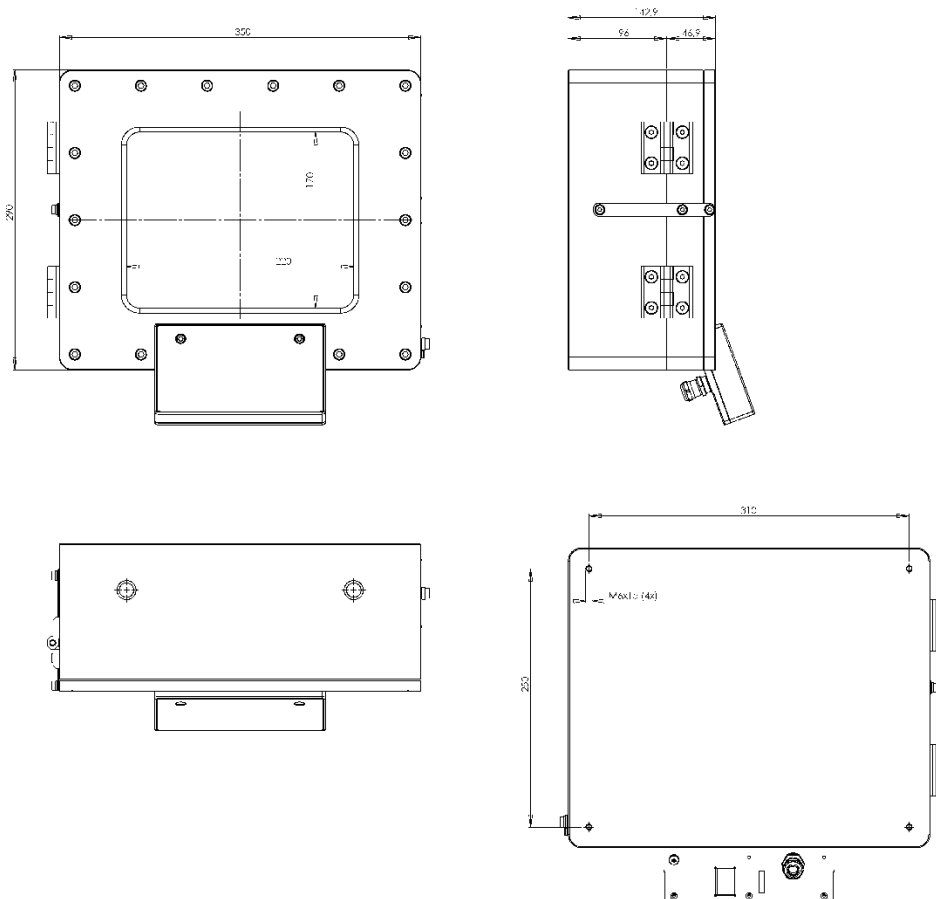
MFX_4 TERMINAL PRO

PRODUCT KEYS / OPTIONS

	4000006 + [Basic option] + [Keyboard] + [Card reader] + [Interfaces] + [Mounting accessories] + [Housing]	
Basic option	P230 P024	Supply voltage 110/230 VAC ±10 % 50/60 Hz Supply voltage 24 VDC ±10 %
Keyboard	K0 KF KHD	Without keyboard Membrane keyboard Mechanical keyboard (heavy duty)
Card reader	CR0 CR2	Without card reader RFID extern
Interfaces	RS232 RS485	RS232 RS485
Mounting accessories	BF0 BF1 BF2	Without accessories With mounting bracket With card holder
Housing	WSG	Weatherproof housing

MF_X_4 TERMINAL PRO

DIMENSIONS



* Dimensions in millimetres