

M1 – 4-digit digital panel meters in 72x36 mm (BxH) Direct voltage (Shunt) 0-60 mV, 0-150 mV

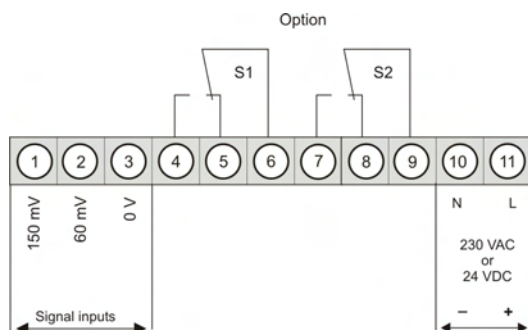
- red display with -1999...9999 digits (optional green, orange or blue displays)
- installation depth: 97 mm without plug-in terminal
- adjustment via factory default or directly on the sensor signal
- min-/max-value recording
- 10 adjustable setpoints
- display flashing at threshold undercut/ exceedance
- navigation keys for the recall of the min/max-values or for threshold value corrections during operation
- tara function
- programming interlock via access code
- protection class IP65 at the front
- plug-in terminal
- optional: 2 relay outputs
- accessories: pc-based configuration-kit PM-TOOL with CD & USB adapter
- on demand: devices for working temperatures of -40°C...80°C or -25°C...60°C



ORDER NUMBER
(without options)

EUR

• Direct voltage (Shunt)



Supply 230 VAC

M1-6VR4B.0002.570BD

Supply 24 VDC

M1-6VR4B.0002.770BD

• Product key options

| | | | | | | | | | | | | | | | |
|---|----|---|---|---|---|----|---|---|---|----|---|---|---|---|---|
| M | 1- | 6 | V | R | 4 | B. | 0 | 0 | 0 | 2. | 5 | 7 | 0 | B | D |
| M | 1- | 6 | V | R | 4 | B. | 0 | 0 | 0 | 2. | 7 | 7 | 0 | B | D |

EUR

| | |
|---|---------------------------------------|
| 2 | 2 relay outputs |
| 1 | without keypad, operation on the back |
| X | Other voltage supplies on demand! |
| B | Blue |
| G | Green |
| Y | Orange |

State physical unit by order, e.g. A!

• Parameterisation software

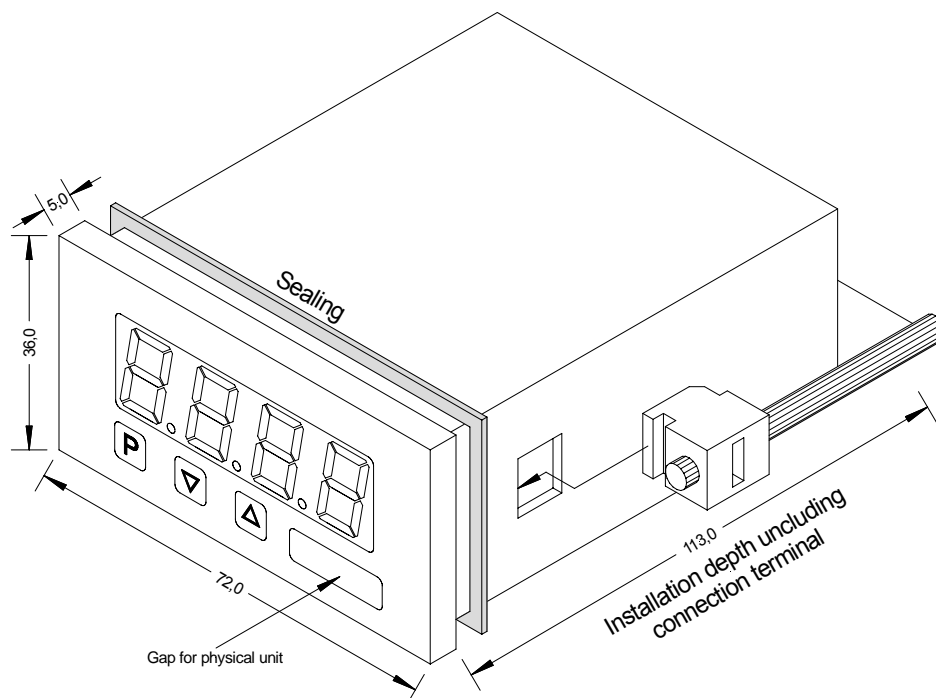
PC based configuration software PM-Tool for devices without keypad, for a simple adjustment of standard devices, incl. CD & USB-adaptor. Programming is made via an interface on the back.

PM-TOOL-MUSB4

• Technical data

| | | | | |
|---------------------------|---|---|---|--|
| Dimensions | Housing | B72 x H36 x D97 mm, (incl. plug-in terminal D = 113 mm) | | |
| | Panel cut-out | 68.0 ^{+0.7} x 33.0 ^{+0.6} mm | | |
| | Fixing | screw elements for wall thickness up to 3 mm | | |
| | Housing material | PC Polycarbonate, black | | |
| | Sealing material | EPDM, 65 Shore, black | | |
| | Protection class | at the front IP65 standard, at the back IP00 | | |
| | Weight | approx. 200 g | | |
| | Connection | plug-in terminal; wire cross section up to 2.5 mm ² | | |
| Display | Display | 4-digit | | |
| | Digit height | 14 mm | | |
| | Segment colour | red (Standard), optional available in green, blue and orange | | |
| | Range of display | -1999 to 9999 | | |
| | Threshold values | optical display flashing | | |
| | Overflow | horizontal bars at the top | | |
| | Underflow | horizontal bars at the bottom | | |
| Display time/Meas. time | 0.1 to 10.0 seconds | | | |
| Measuring input | Measuring span | -5...80 mV | / -10...180 mV | |
| | Measuring range | 0...60 mV | / 0...150 mV | |
| | Input resistance | Ri with ~12 kΩ | / Ri with ~30 kΩ | |
| | Measuring error | 0.2% of measuring range, ± 1 Digit / 0.2% of measuring range, ± 1 Digit | | |
| | Temperature drift | 100 ppm/K | | |
| | Measuring time | 0.1 ... 10.0 seconds | | |
| | Measuring principle | U/F-conversion | | |
| | Resolution | approx. 18 Bit at 1s measuring time | | |
| | Output | Relay | with change-over contact 250 V / 5 AAC, 30 V / 5 VDC | |
| | | Switching cycles | 30 * 10 ³ with 5 AAC, 5 ADC ohm resistive load 10 * 10 ⁶ mechanically Diversity according to DIN EN50178 / Characteristics according to DIN EN60255 | |
| Power pack | Supply | 230 VAC +/- 10 % (max. 3 VA) | | |
| | | 24 VDC +/- 10 %, galvanic insulated (max. 1 VA) | | |
| Memory | EEPROM | Data life ≥ 100 years at 25°C | | |
| Ambient conditions | Working temperature | 0 to + 60 °C | | |
| | Storing temperature | -20 to + 80°C | | |
| | Climatic density | relative humidity 0-85% on years average without dew | | |
| CE-sign | Conformity to directive 2004/108/EG | | | |
| EMV | EN 61326, EN 55011 | | | |
| Safety standard | According to low voltage directive 2006/95/EG, EN 61010; EN 60664-1 | | | |

Housing:



• Product key

| | | | | | | | | | | | | | | | | | |
|--|---|----|---|---|---|---|----|---|---|---|----|---|---|---|---|---|---|
| | M | 1- | 6 | V | R | 4 | B. | 0 | 0 | 0 | 2. | 7 | 7 | 0 | B | D | |
| Basic type M-line | | | | | | | | | | | | | | | | | |
| Installation depth 113 mm incl. plug-in terminal | | | | | | | | | | | | | | | | | Dimension D physical unit (free selectable) |
| Housing size 72x36x97mm (BxHxD) | | | | | | | | | | | | | | | | | Version B B |
| Display type Current, Voltage | | | | | | | | | | | | | | | | | Setpoints 0 without 2 2 relay outputs |
| Display colours Blue Green Red Orange | | | | | | | | | | | | | | | | | Protection class 1 without keypad, operation on the back 7 IP65 / plug-in terminal |
| Number of digits 4-digit | | | | | | | | | | | | | | | | | Supply voltage 5 230 VAC 7 24 VDC galv. insulated |
| Digit height 14 mm | | | | | | | | | | | | | | | | | Measuring input 2 Shunt 0-60-150 mV |
| Digital input none | | | | | | | | | | | | | | | | | Analog output 0 none |
| | | | | | | | | | | | | | | | | | Sensor supply 0 none |