



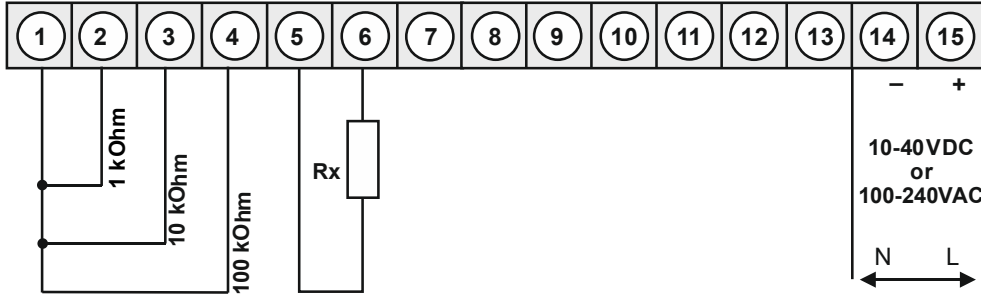
IM3 – 5-digit digital panel meter in 96x24 mm (BxH) Resistance 1 kΩ, 10 kΩ or 100 kΩ

- red display from -19999...99999 digits (optional green, orange, blue or tricolour display)
- installation depth: 120 mm without plug-in screw terminal
- multi voltage power supply unit 100-240 VAC, alternatively 10-40 VDC galvanic isolated
- adjustment via factory setting or directly on the sensor signal
- min/max-memory with adjustable permanent display
- 30 additional adjustable support points
- display flashing at threshold value exceedance / undercut
- navigation keys for the triggering of Hold, Tara, display change, setpoint setting, alarm actuation
- flexible alarm system with adjustable delay times
- volume measurement (Totaliser)
- mathematical functions like reciprocal value, square root, square and rounding
- constant setting / setpoint setting
- sliding averaging
- brightness control via parameter or front keys
- programming interlock via access code
- protection class IP65 at the front
- plug-in screw terminal
- optional: 1 or 2 relay outputs
- optional: 1 independently scalable analog output
- optional: interface RS232 or RS485
- accessories: pc-based configuration-kit PM-TOOL with CD & USB adapter
- on request: devices for working temperatures of -20°C...60°C or -40°C...70°C

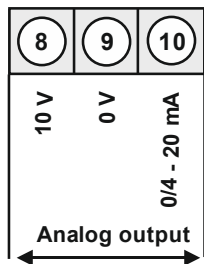
• **Resistance (1 kΩ, 10 kΩ or 100 kΩ)**

Supply 100-240 VAC, DC ± 10% **IM3-3VR5B.0006.S70xD** 270.10

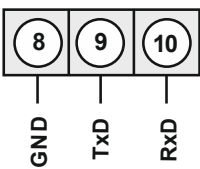
Supply 10-40 VDC, 18-30 VAC **IM3-3VR5B.0006.W70xD** 270.10



Options:

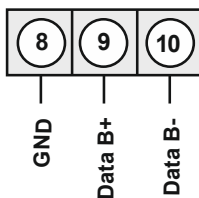


or



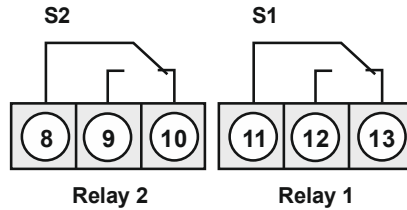
Interface RS232
(Modbus protocol)

or



Interface RS485
(Modbus protocol)

or



Alternatively to analog output

• **Product key options**

| | | | | | | | | | | | | | | | |
|----|----|---|---|---|---|----|---|---|---|----|---|---|---|---|---|
| IM | 3- | 3 | V | R | 5 | B. | 0 | 0 | 0 | 6. | S | 7 | 0 | x | D |
| IM | 3- | 3 | V | R | 5 | B. | 0 | 0 | 0 | 6. | W | 7 | 0 | x | D |

EUR

| | | |
|---|---|--------|
| 1 | 1 relay output (with option analog output only 1 switching point is possible) | 21.20 |
| 2 | 2 relay outputs | 31.80 |
| 1 | without keypad, operation via PC software PM-TOOL | 10.60 |
| X | Analog output 0/4-20 mA, 0-10 VDC | 105.90 |
| 3 | Interface RS232 galvanic isolated | 68.80 |
| 4 | Interface RS485 galvanic isolated | 68.80 |
| B | Blue | 46.60 |
| G | Green | 10.10 |
| Y | Orange | 10.10 |
| T | Tricolour (Red-Green-Orange) | 31.80 |

On demand state dimension unit on order, e.g. mm.

• **Parameterisation software**

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

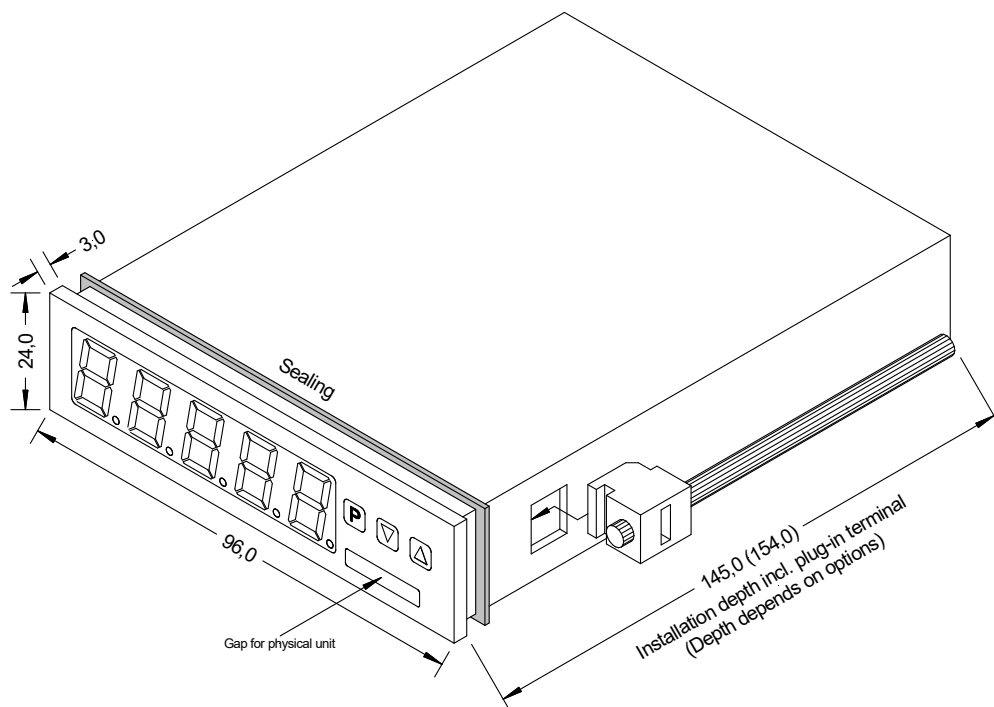
PM-TOOL-MUSB4

94.30

• **Technical data**

| | | |
|--------------------------|---|---|
| Dimensions | Housing | B96 x H24 x D120 mm, (incl. plug-in terminal D= 145 mm cable outlet at the back) |
| | Panel cut-out | 92.0 ^{+0.8} x 22.2 ^{+0.3} mm |
| | Fixing | screw elements for a wall thickness up to 10 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. 250 g |
| | Connection | plug-in terminal; wire cross section up to 2.5 mm ² |
| Display | Display | 5-digit |
| | Digit height | 14 mm |
| | Segment colour | red (Standard), optional in green, orange, blue or tricolour (red/green/orange) |
| | Range of display | -19999 to 99999 |
| | Threshold value | optical display flashing |
| | Overflow | horizontal bars at the top |
| | Underflow | horizontal bars at the bottom |
| Display time | 0.1 to 10.0 seconds | |
| Measuring input | Span | 0...1.1 kΩ / 0...11 kΩ / 0...110 kΩ |
| | Measuring range | 0...1 kΩ / 0...10 kΩ / 0...100 kΩ |
| | Measuring fault | 0.5% 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 1 sec measuring time |
| Output | Relay | with change-over contact 250 V / 2 AAC, 30 V / 2 ADC |
| | Switching cycle | 30 * 10 ³ at 2 AAC, 2 ADC Ohm resistive burden, 10 * 10 ⁶ mechanically Separation according to DIN EN50178 / Specific values according to DIN EN 60255 |
| | Analog output | 0-10 VDC / burden ≥ 10 kΩ, 0/4-20 mA / burden ≤ 500 Ω, 16 bit |
| Interface | Protocol | Modbus with ASCII or RTU-protocol |
| | RS232 | 9.600 Baud, no parity, 8 DataBit, 1 StopBit, Pipeline length max. 3 m |
| | RS485 | 9.600 Baud, no parity, 8 DataBit, 1 StopBit, Pipeline length max. 1000 m |
| Power pack | Supply | 100-240 VAC 50/60 Hz, DC ±10 % (max. 10 VA) 10-40 VDC galv. isolated, 18-30 VAC 50/60 Hz (max. 10 VA) |
| Memory | EEPROM | Data preservation ≥ 100 years at 25°C |
| Ambient condition | Working temperature | 0 to +50°C |
| | Storing temperature | -20 to +80°C |
| | Climatic density | relative humidity 0-85% on years average without dew |
| CE-sign | Conformity to directive 2014/30/EU | |
| EMV | EN 61326, EN 55011 | |
| Safety standard | According to low voltage directive 2014/35/EU, EN 61010; EN 60664-1 | |

Housing:



• Order key

| | IM | 3- | 3 | V | R | 5 | B. | 0 | 0 | 0 | 6. | W | 7 | 0 | x | D | |
|--|----|----|----------------------------|----------------------------|----------------------------|---|----|---|---|---|----|---|---|---|---|---|--|
| Standard type M-Line | | | | | | | | | | | | | | | | | Dimension |
| | | | | | | | | | | | | | | | | | <input type="checkbox"/> D physical unit (free selectable) |
| Installation depth | | | | | | | | | | | | | | | | | Version |
| 145 mm incl. plug-in terminal (154 mm) | | | <input type="checkbox"/> 3 | | | | | | | | | | | | | | <input type="checkbox"/> x internal version |
| Housing size | | | | | | | | | | | | | | | | | Switching points |
| 96x24x120 mm (BxHxT) | | | <input type="checkbox"/> 3 | | | | | | | | | | | | | | <input type="checkbox"/> 0 without |
| Display type | | | | | | | | | | | | | | | | | <input type="checkbox"/> 1 1 relay output |
| Resistance | | | | <input type="checkbox"/> V | | | | | | | | | | | | | <input type="checkbox"/> 2 2 relay outputs |
| Display colours | | | | | | | | | | | | | | | | | Protection class |
| Blue | | | | | <input type="checkbox"/> B | | | | | | | | | | | | <input type="checkbox"/> 1 without keypad, operation via PM-TOOL |
| Green | | | | | <input type="checkbox"/> G | | | | | | | | | | | | <input type="checkbox"/> 7 IP65 / plug-in terminal |
| Red | | | | | <input type="checkbox"/> R | | | | | | | | | | | | |
| Red/Green/Orange | | | | | <input type="checkbox"/> T | | | | | | | | | | | | |
| Orange | | | | | <input type="checkbox"/> Y | | | | | | | | | | | | Supply voltage |
| Number of digits | | | | | | | | | | | | | | | | | <input type="checkbox"/> S 100-240 VAC |
| 5-digits | | | | | | | | | | | | | | | | | <input type="checkbox"/> W 10-40 VDC |
| Digit height | | | | | | | | | | | | | | | | | Measuring input |
| 14 mm | | | | | <input type="checkbox"/> B | | | | | | | | | | | | <input type="checkbox"/> 6 1 kΩ, 10 kΩ or 100 kΩ |
| Digital input | | | | | | | | | | | | | | | | | Analog output |
| without | | | | | | | | | | | | | | | | | <input type="checkbox"/> 0 without |
| Interface RS232 | | | | | | | | | | | | | | | | | <input type="checkbox"/> X 1x 0-10 VDC, 0/4-20 mA |
| Interface RS485 | | | | | | | | | | | | | | | | | Sensor supply |
| | | | | | | | | | | | | | | | | | <input type="checkbox"/> 0 without |