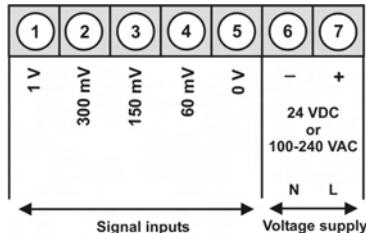




M3 – 5-digit digital panel meter in 48x24 mm (BxH)
Direct voltage signals – Shunt
60 mV, 150 mV, 300 mV, 1000 mV

- red display from -19999...99999 Digits (optional green, orange or blue display)
- installation depth: 90 mm without plug-in terminal
- multi voltage power supply unit 100-240 VAC
- adjustment via factory default or directly on the sensor signal
- min-/max-memory with adjustable permanent display
- 30 additional adjustable support points
- display flashing at threshold exceedance / threshold undershooting
- navigation keys for the triggering of Hold, Tara, display change, setpoint setting, alarm actuator
- flexible alarm system with adjustable delay times
- demand measurement and energy measurement at constant voltage
- mathematical functions like reciprocal value, square root, square and rounding
- constant setting / respectively setpoint setting
- sliding averaging
- brightness control via parameters or front keys
- programming interlock via access code
- protection class IP65 at the front
- plug-in screw terminal
- optional: 2 PhotoMos-outputs
- optional: 1 independently scalable analog output
- optional: galv. insulated digital input for the triggering of Tara, Hold, display change
- accessories: pc-based configuration-kit PM-TOOL with CD & USB adapter
- on demand: devices for working temperatures of -20°C...50°C or -40°C...70°C without condensation

- Direct voltage (Shunt)



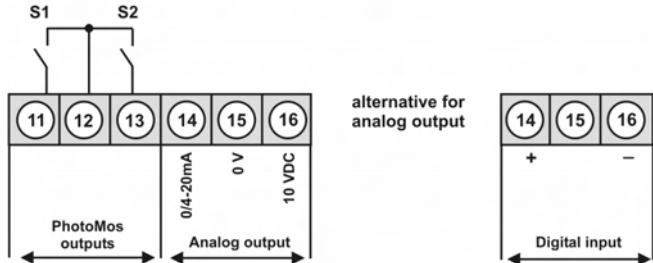
Supply 24 VDC

M3-7VR5A.0002.770BD

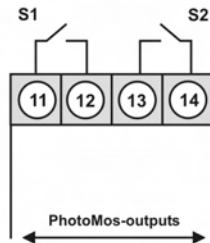
Supply 100-240 VAC, DC ±10%

M3-7VR5A.0002.S70BD

Options: device with a supply of 24 VDC



Options: device with a supply of 100-240 VAC



- Product key options: devices with a supply of 24 VDC

M	3-	7	V	R	5	A.	0	0	0	2.	7	7	0	B	D	EUR

Legend:

- 2 | 2 PhotoMos outputs
- 1 | Without keypad, operation on the back side
- X | Analog output 0/4-20 mA, 0-10 VDC galvanic insulated
- I | Digital input galvanic insulated
- B | Blue
- G | Green
- Y | Orange

- Product key options: devices with a supply of 100-240 VAC

M	3-	7	V	R	5	A.	0	0	0	2.	S	7	0	B	D	EUR

Legend:

- 2 | 2 PhotoMos outputs
- 1 | Without keypad, operation on the back side
- B | Blue
- G | Green
- Y | Orange

Please state physical unit on demand in your order, e.g. mV.

- Parameterisation software

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

ORDER NUMBER

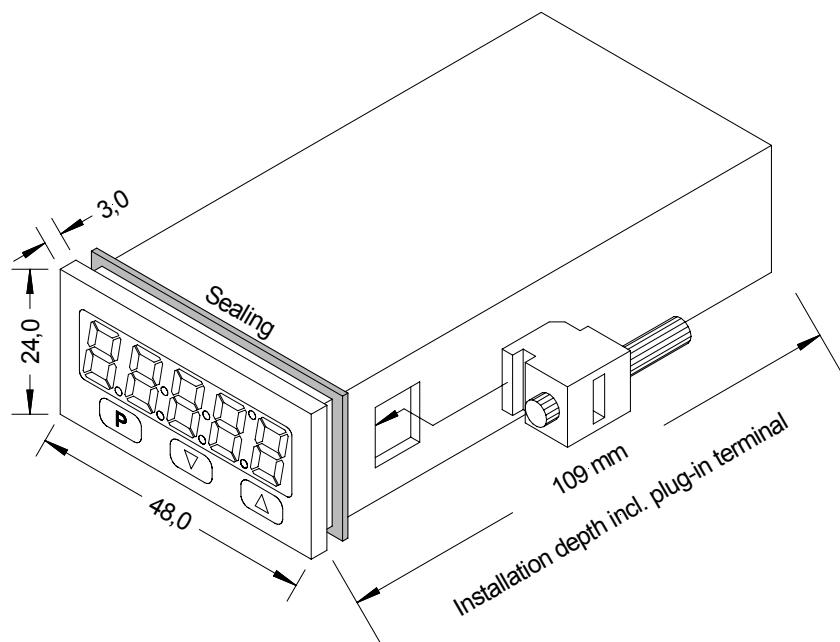
EUR

PM-TOOL-MUSB4

• Technical data

Housing dimension	Housing Panel cut-out Fixing Housing material Sealing material Protection class Weight Connection	B48 x H24 x T90 mm, (with plug-in terminal D= 109 mm) $45.0^{+0.6}_{-0.4}$ x $22.2^{+0.3}_{-0.2}$ mm screw elements for wall thicknesses up to 3 mm PC Polycarbonate, black EPDM, 65 Shore, black at the front IP65 standard, at the back IP00 approx. 200 g plug-in terminal; wire cross section up to 2.5 mm^2
Display	Display Digit height Segment colour Display range Limit values Overflow Underflow Display time	5-digit 10 mm red (Standard), optional available in green, orange and blue -19999 to 99999 optical display flashing horizontal bars at the top horizontal bars at the bottom 0.1 to 10.0 seconds
Measuring input	Span Measuring range Input resistance Measuring fault Temperature drift Measuring time Measuring principle Resolution	-5...75 mV / -15...180 mV / -30...360 mV / -100...1200 mV 0...60 mV / 0...150 mV / 0...300 mV / 0...1000 mV R _i at ~12 kΩ / R _i at ~30 kΩ / R _i at ~60 kΩ / R _i at ~200 kΩ 0.2% of measuring range, ± 1 Digit / 0.2% of measuring range, ± 1 Digit 100 ppm/K 0.1 ... 10.0 seconds U/F-conversion approx. 18 Bit at 1second measuring time
Output	PhotoMos Analog output	Closer contacts: 30 VDC/AC, 0.4 A 0-10 VDC / burden $\geq 10 \text{ k}\Omega$, 0/4-20 mA / burden $\leq 500 \text{ }\Omega$, 16 Bit
Digital input	Input galv. insulated	<2,4 V OFF; 10 V ON; max. 30 VDC, R _i ~ 5 kΩ
Power pack	Supply	100-240 VAC 50/60 Hz / DC ± 10% (max. 5 VA) 24 VDC ± 10 %, galvanic insulated (max. 4 VA)
Memory	EEPROM	Data life ≥ 100 years at 25°C
Ambient conditions	Working temperature Storing temperature Climatic density	0 to + 50°C -20 to + 80°C 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:



• Order key

	M	3-	7	V	R	5	A.	0	0	0	2.	7	7	0	B	D	
Standard type M-Line																	Dimension
Installation depth																D	physical unit
109 mm (incl. plug-in terminal)		3															Version
Housing size								7								B	B
48x24x90 mm (BxHxD)																	Switching points
Display type																0	no switching point
mV																2	2 PhotoMos-outputs
Display colours																	Protection class
Blue								B								1	without keypad, operation on the back
Green								G								7	IP65 / pluggable terminal
Red								R									
Orange								Y									
Number of digits																	Supply voltage
5-digit									5							7	24 VDC galv. insulated
Digit height																S	100-240 VAC
10 mm																	
Digital input																	Measuring input
without								0									Shunt
1 digital input								I									
																	Analog output
																0	without
																X	0-10 VDC, 0/4-20 mA
																	Sensor supply
																0	without