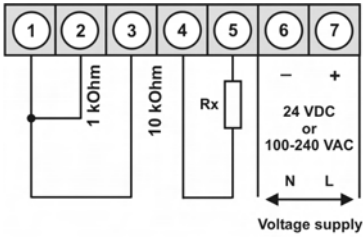




M3 – 5-digit digital panel meter in 48x24 mm (BxH) Resistance (1 k Ω or 10 k Ω)

- 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
- volume measuring (totaliser)
- mathematical functions like reciprocal value, square root, square, 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
- pluggable 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

• Resistance (1 kΩ or 10 kΩ)



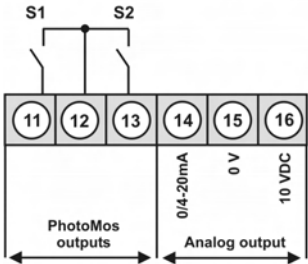
Supply 24 VDC

M3-7VR5A.0006.770BD

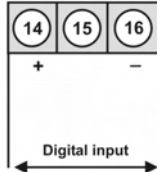
Supply 100-240 VAC, DC ± 10%

M3-7VR5A.0006.S70BD

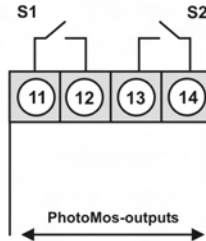
Options: device with a supply of 24 VDC



alternative for analog output



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	6.	7	7	0	B	D
---	----	---	---	---	---	----	---	---	---	----	---	---	---	---	---

EUR

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	6.	S	7	0	B	D
---	----	---	---	---	---	----	---	---	---	----	---	---	---	---	---

EUR

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. 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 is made via an interface on the back.

ORDER NUMBER

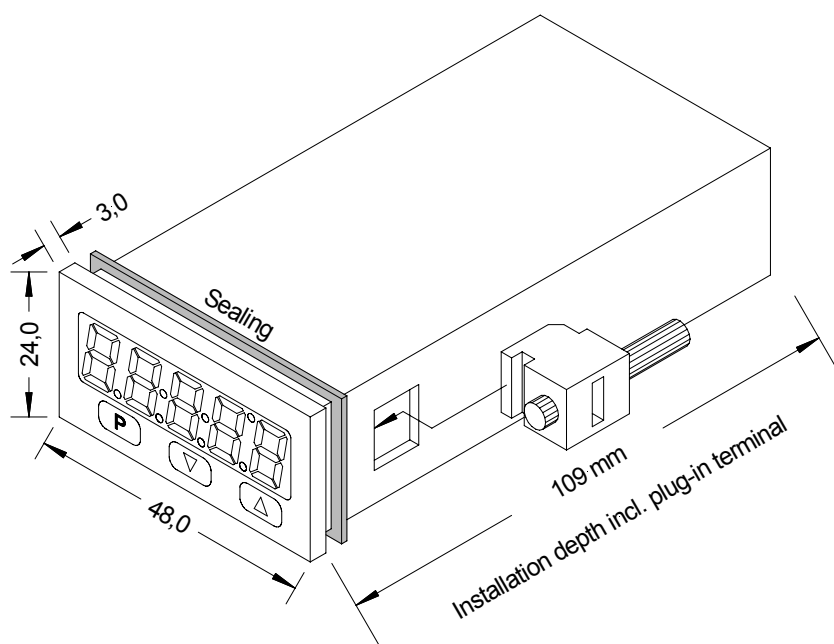
EUR

PM-TOOL-MUSB4

• **Technical data**

Housing dimension	Housing	B48 x H24 x T90 mm, (with plug-in terminal D= 109 mm)
	Panel cut-out	45.0 ^{+0.6} x 22.2 ^{+0.3} mm
	Fixing	screw elements for wall thicknesses 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	5-digit
	Digit height	10 mm
	Segment colour	red (Standard), optional available in green, orange and blue
	Display range	-19999 to 99999
	Limit values	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
	Measuring range	0...1 kΩ / 0...10 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 second measuring time
Output	PhotoMos	Closer contacts: 30 VDC/AC, 0.4 A
	Analog output	0-10 VDC / burden ≥ 10 kΩ, 0/4-20 mA / burden ≤ 500 Ω, 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	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 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	6.	7	7	0	B	D		
Standard type M-Line																		Dimension
																		<input type="checkbox"/> D physical unit
Installation depth																		Version
109 mm (incl. plug-in terminal)																		<input type="checkbox"/> B B
Housing size																		Setpoints
48x24x90 mm (BxHxD)																		<input type="checkbox"/> 0 no setpoint
Display type																		<input type="checkbox"/> 2 2 PhotoMos-outputs
Resistance																		Protection class
Display colours																		<input type="checkbox"/> 1 without keypad, operation on the back
Blue																		<input type="checkbox"/> 7 IP65 / pluggable terminal
Green																		Supply voltage
Red																		<input type="checkbox"/> 7 24 VDC galv. insulated
Orange																		<input type="checkbox"/> S 100-240 VAC
Number of digits																		Measuring input
5-digit																		<input type="checkbox"/> 6 1 kΩ, 10 kΩ
Digit height																		Analog output
10 mm																		<input type="checkbox"/> 0 without
Digital input																		<input type="checkbox"/> X 0-10 VDC, 0/4-20 mA
without																		Sensor supply
1 digital input																		<input type="checkbox"/> 1 without