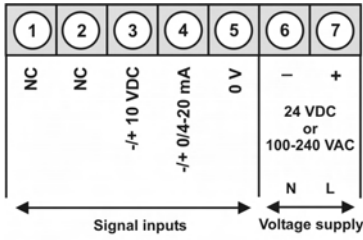




M3 – 5-digit digital panel meter in 48x24 mm (BxH) Standard signal 0/4-20 mA, 0-10 VDC

- 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: sensor supply
- 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 current, direct voltage



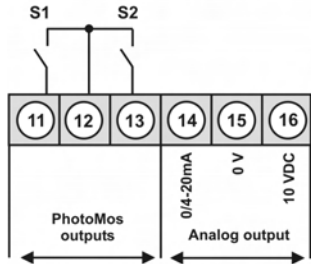
Supply 24 VDC

M3-7VR5A.0001.770BD

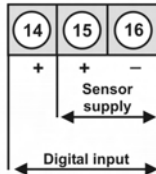
Supply 100-240 VAC, DC ± 10%

M3-7VR5A.0001.S70BD

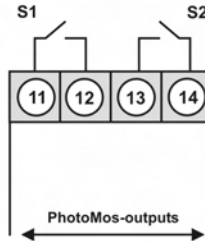
Options: device with a supply of 24 VDC



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 1. 7 7 0 B D

EUR

S260 up to 50 VDC, measuring fault 0.5% of final value
2 2 PhotoMos outputs
1 Without keypad, operation on the back side
X Analog output 0/4-20 mA, 0-10 VDC galvanic insulated
2 Sensor supply 10 VDC / 20 mA incl. digital input
3 Sensor supply 24 VDC / 50 mA incl. digital input
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 1. 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. bar.

• 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

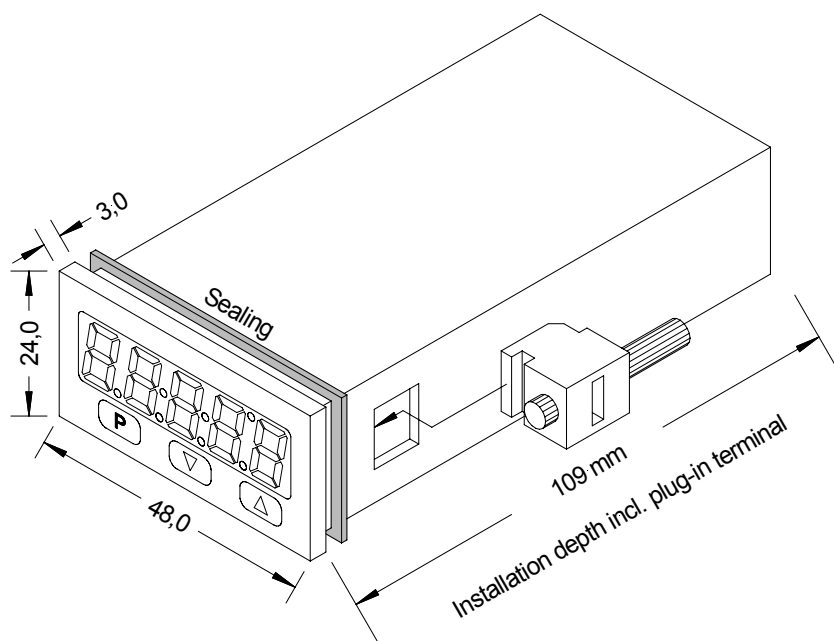
EUR

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	
Display	Connection	plug-in terminal; wire cross section up to 2.5 mm ²	
	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	
Measuring input	Underflow	horizontal bars at the bottom	
	Display time	0.1 to 10.0 seconds	
	Span	-12...12 V	/ -22...24 mA
	Measuring range	0-10 VDC	/ 0/4-20 mA
	Input resistance	Ri at ~200 kΩ	/ Ri at ~100 Ω
	Measuring fault	0.1% of measuring range, ± 1 Digit / 0.1% of measuring range, ± 1 Digit	
	Temperature drift	100 ppm/K	
Output	Measuring time	0.1 ... 10.0 seconds	
	Measuring principle	U/F-conversion	
	Resolution	approx. 18 Bit at 1second measuring time	
	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	
	Sensor supply	24 VDC / 50 mA, 10 VDC / 20 mA	
	Digital input	Input galv. insulated	<2,4 V OFF; 10 V ON; max. 30 VDC, R _I ~ 5 kΩ
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	1.	7	7	0	B	D	
Standard type M-Line																	Dimension
																	<input type="checkbox"/> D physical unit (free selectable)
Installation depth																	Version
109 mm (incl. plug-in terminal)																	<input type="checkbox"/> B B
Housing size																	Switching points
48x24x90 mm (BxHxD)																	<input type="checkbox"/> 0 no switching point
																	<input type="checkbox"/> 2 2 PhotoMos-outputs
Display type																	Protection class
V, A																	<input type="checkbox"/> 1 without keypad, operation on the back
Display colours																	<input type="checkbox"/> 7 IP65 / pluggable terminal
Blue																	Supply voltage
Green																	<input type="checkbox"/> 7 24 VDC galv. insulated
Red																	<input type="checkbox"/> S 100-240 VAC
Orange																	Measuring input
Number of digits																	<input type="checkbox"/> 1 Direct current, direct voltage
5-digit																	Analog output
Digit height																	<input type="checkbox"/> 0 without
10 mm																	<input type="checkbox"/> X 0-10 VDC, 0/4-20 mA
Digital input																	Sensor supply
without																	<input type="checkbox"/> 0 without
1 digital input																	<input type="checkbox"/> 2 10 VDC / 20 mA, incl. digital input
																	<input type="checkbox"/> 3 24 VDC / 50 mA, incl. digital input