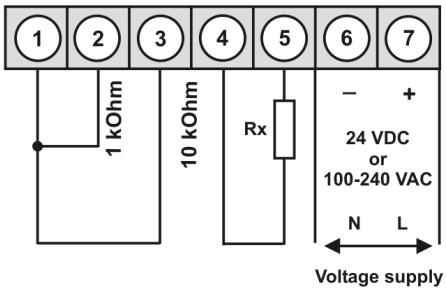
M3 – 5-digit digital panel meter in 48x24 mm (BxH) Resistance (1 kΩ or 10 kΩ)

- 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. isolated digital input for the triggering of Tara, Hold, display change
- accessories: pc-based configuration-kit PM-TOOL with USB adapter
- on request: devices for working temperatures of -20°C…50°C or -40°C…70°C without condensation

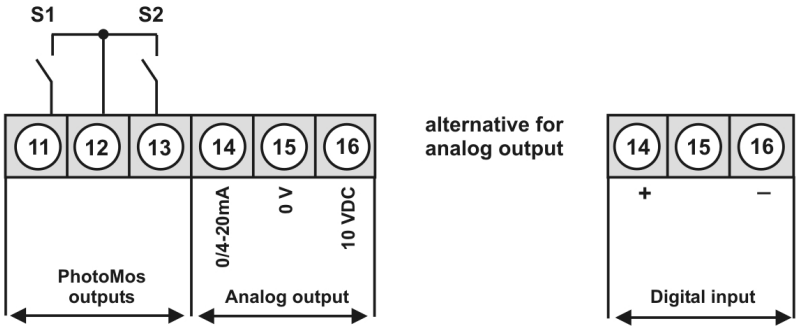
	ORDER NUMBER (without options)	EUR

• Resistance (1 kΩ or 10 kΩ)

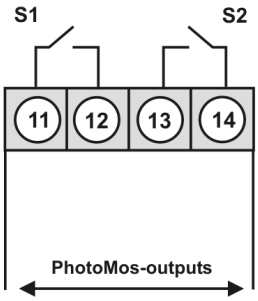


Supply 24 VDC	**M3-7VR5A.0006.770xD**	**233.00**
Supply 100-240 VAC, DC ± 10%	**M3-7VR5A.0006.S70xD**	**243.60**

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	6.	7	7	0	x	D

		EUR
D	Dimension/physical unit, customer-specific settings	20.00
2	2 PhotoMos outputs	31.80
1	Without keypad, operation via PC software PM-TOOL	10.60
X	Analog output 0/4-20 mA, 0-10 VDC galvanic isolated	127.10
I	Digital input galvanic isolated	21.20
B	Blue	46.60
G	Green	10.10
Y	Orange	10.10

• 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	x	D

		EUR
D	Dimension/physical unit, customer-specific settings	20.00
2	2 PhotoMos outputs	31.80
1	Without keypad, operation via PC software PM-TOOL	10.60
B	Blue	46.60
G	Green	10.10
Y	Orange	10.10

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

	ORDER NUMBER	EUR

• Parameterisation software

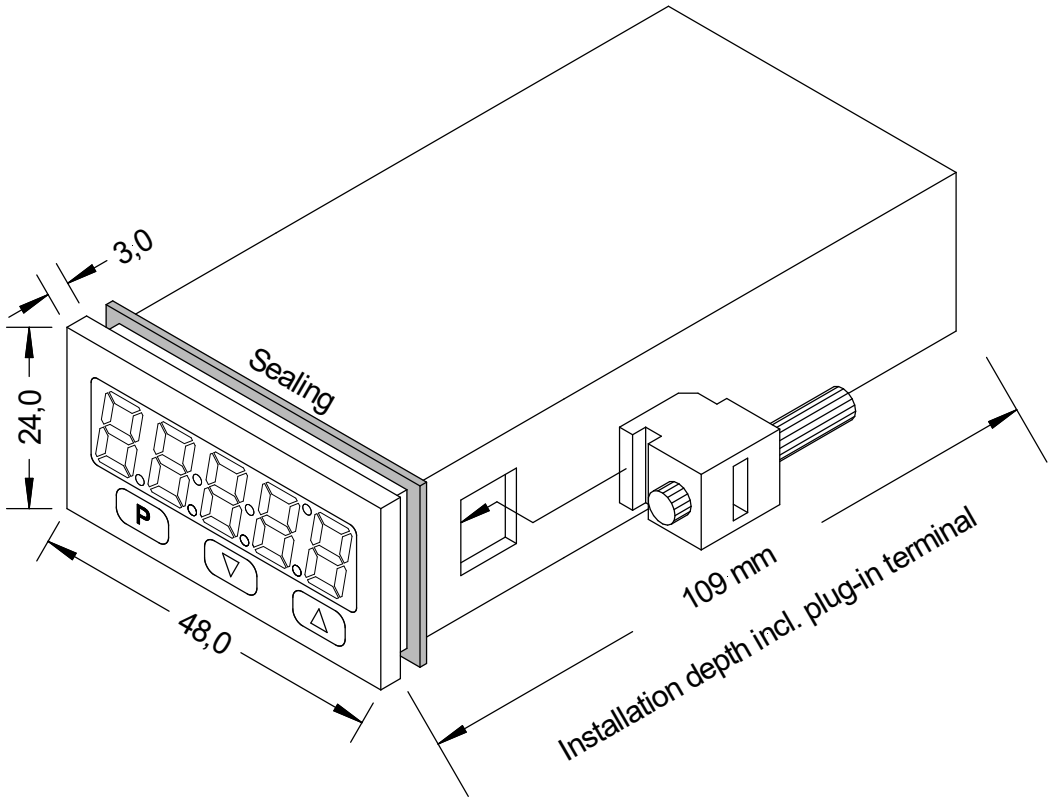
PC based configuration software PM-Tool for devices without keypad,
for a simple adjustment of standard devices, incl. USB-adapter.
Programming happens via an interface on the back.

	PM-TOOL-MUSB4	**94.30**

• 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 5 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. isolated	<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 isolated (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 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

	M	3-	7	V	R	5	A.	0	0	0	6.	7	7	0	x	D

Standard type M-Line

Installation depth

109 mm (incl. plug-in terminal)	3

Housing size

48x24x90 mm (BxHxD)	7

Display type

Resistance	V

Display colours

Blue	B
Green	G
Red	R
Orange	Y

Number of digits

5-digit	5

Digit height

10 mm	A

Digital input

without	0
1 digital input	I

Sensor supply

0	without

Analog output

0	without
X	0-10 VDC, 0/4-20 mA

Measuring input

6	1 kΩ, 10 kΩ

Supply voltage

7	24 VDC galv. isolated
S	100-240 VAC

Protection class

1	without keypad, operation via PM-TOOL
7	IP65 / pluggable terminal

Setpoints

0	no setpoint
2	2 PhotoMos-outputs

Version

x	internal version

Dimension

D	physical unit