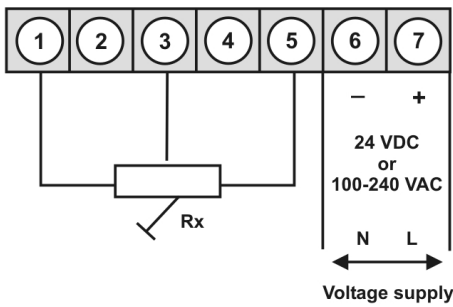




### **IM3 – 5-digit digital panel meter in 48x24 mm (BxH) Potentiometer 0-100 % (>1 k $\Omega$ ... <1000 k $\Omega$ )**

- 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 setpoints
- 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 CD & USB adapter
- on request: devices for working temperatures of -20°C...50°C or -40°C...70°C without condensation

• **Potentiometer 0-100 % (>1 kΩ ... <1000 kΩ)**



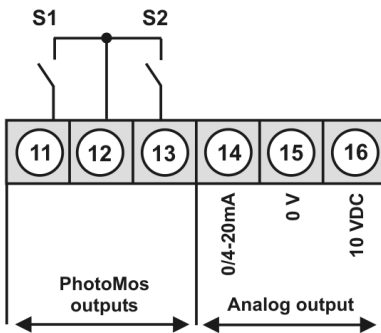
Supply 24 VDC

**IM3-7VR5A.0005.770xD**      **233.00**

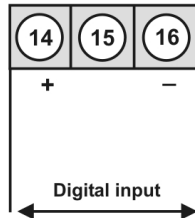
Supply 100-240 VAC, DC ± 10 %

**IM3-7VR5A.0005.S70xD**      **243.60**

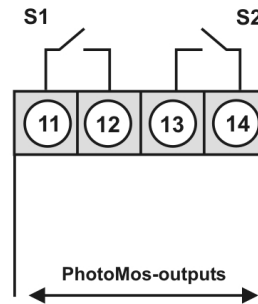
Options: device with a supply of 24 VDC



alternative for analog output



Options: device with a supply of 100-240 VAC



• **Product key options:** devices with a supply of 24 VDC

IM	3-	7	V	R	5	A.	0	0	0	5.	7	7	0	x	D	EUR		
																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

IM	3-	7	V	R	5	A.	0	0	0	5.	S	7	0	x	D	EUR		
																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. 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 happens via an interface on the back.

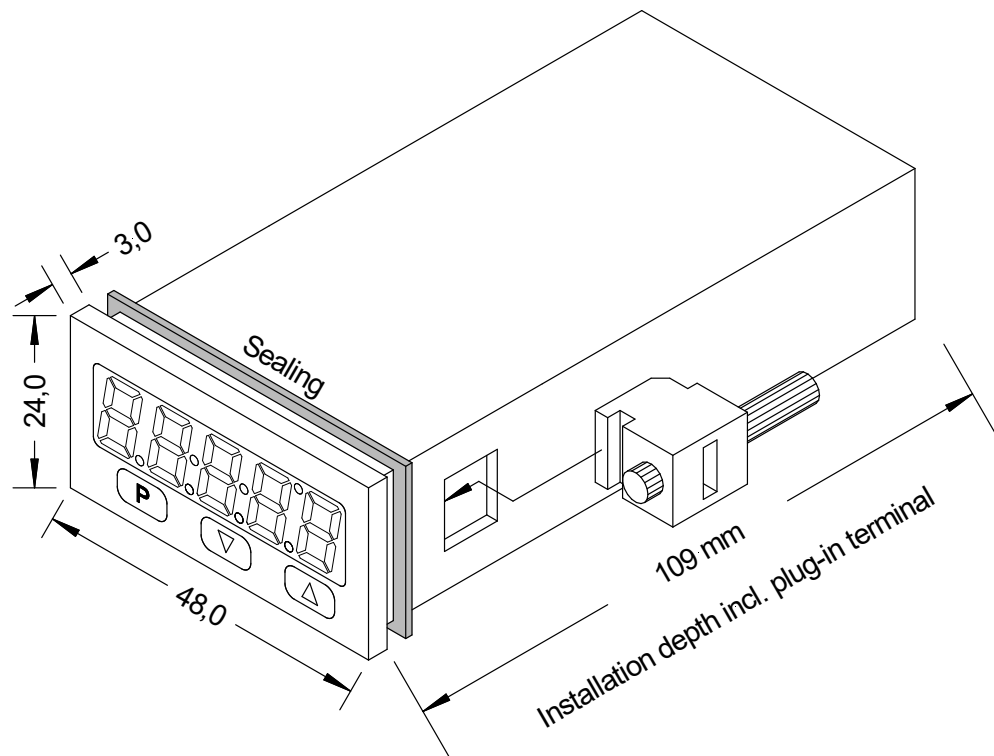
**ORDER NUMBER**      **EUR**

**PM-TOOL-MUSB4**      **94.30**

## • Technical data

<b>Housing dimension</b>	Housing	B48 x H24 x T90 mm, (with plug-in terminal D= 109 mm)
	Panel cut-out	45.0 <sup>+0.6</sup> x 22.2 <sup>+0.3</sup> 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 <sup>2</sup>
<b>Display</b>	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	
<b>Measuring input</b>	Span	>1 k $\Omega$ ... <1000 k $\Omega$
	Measuring range	0-100 %
	Measuring fault	0.5% of measuring range, $\pm$ 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
<b>Output</b>	PhotoMos	Closer contacts: 30 VDC/AC, 0.4 A
	Analog output	0-10 VDC / burden $\geq$ 10 k $\Omega$ , 0/4-20 mA / burden $\leq$ 500 $\Omega$ , 16 bit
<b>Digital input</b>	Input galv. isolated	<2.4 V OFF; >10 V ON; max. 30 VDC, R <sub>i</sub> ~ 5 k $\Omega$
<b>Power pack</b>	Supply	100-240 VAC 50/60 Hz / DC $\pm$ 10% (max. 5 VA)
		24 VDC $\pm$ 10%, galvanic isolated (max. 4 VA)
<b>Memory</b>	EEPROM	Data life $\geq$ 100 years at 25°C
<b>Ambient conditions</b>	Working temperature	0 to +50°C
	Storing temperature	-20 to +80°C
	Climatic density	relative humidity 0-85% on years average without dew
<b>CE-sign</b>	Conformity to directive 2014/30/EU	
<b>EMV</b>	EN 61326, EN 55011	
<b>Safety standard</b>	According to low voltage directive 2014/35/EU EN 61010; EN 60664-1	

### Housing:



### • Order key

	IM	3-	7	V	R	5	A.	0	0	0	5.	7	7	0	x	D	
<b>Standard type M-Line</b>																	<b>Dimension</b>
																	<input type="checkbox"/> D physical unit
<b>Installation depth</b>																	<b>Version</b>
109 mm (incl. plug-in terminal)																	<input type="checkbox"/> x internal Version
<b>Housing size</b>																	<b>Switching points</b>
48x24x90 mm (BxHxD)																	<input type="checkbox"/> 0 no switching point
<b>Display type</b>																	<input type="checkbox"/> 2 2 PhotoMos-outputs
Potentiometer																	<b>Protection class</b>
<b>Display colours</b>																	<input type="checkbox"/> 1 without keypad, operation via PM-TOOL
Blue																	<input type="checkbox"/> 7 IP65 / pluggable terminal
Green																	<b>Supply voltage</b>
Red																	<input type="checkbox"/> 7 24 VDC galv. isolated
Orange																	<input type="checkbox"/> S 100-240 VAC
<b>Number of digits</b>																	<b>Measuring input</b>
5-digit																	<input type="checkbox"/> 5 Potentiometer > 1 kΩ... < 1.000 Ω
<b>Digit height</b>																	<b>Analog output</b>
10 mm																	<input type="checkbox"/> 0 without
<b>Digital input</b>																	<input type="checkbox"/> X 0-10 VDC, 0/4-20 mA
without																	<b>Sensor supply</b>
1 digital input																	<input type="checkbox"/> 0 without