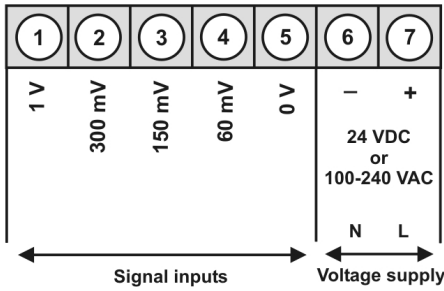




### **M3 – 5-digit digital panel meter in 48x24 mm (BxH) Direct voltage signals – Shunt 60 mV, 150 mV, 300 mV, 1000 mV**

- 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. 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

• **Direct voltage (Shunt)**



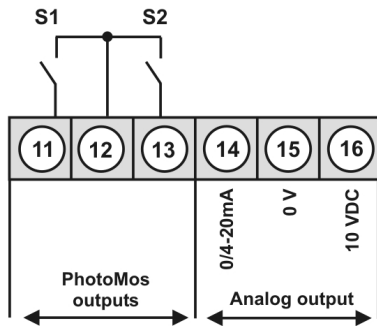
Supply 24 VDC

**M3-7VR5A.0002.770xD** 243.60

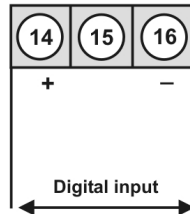
Supply 100-240 VAC, DC ±10%

**M3-7VR5A.0002.S70xD** 254.20

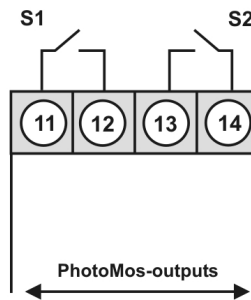
Options: device with a supply of 24 VDC



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	2.	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	2.	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. mV.

• **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.

**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	-5...75 mV	/ -15...180 mV	/ -30...360 mV	/ -100...1200 mV
	Measuring range	0...60 mV	/ 0...150 mV	/ 0...300 mV	/ 0...1000 mV
	Input resistance	R <sub>i</sub> at ~12 kΩ	/ R <sub>i</sub> at ~30 kΩ	/ R <sub>i</sub> at ~60 kΩ	/ R <sub>i</sub> at ~200 kΩ
	Measuring fault	0.5% of measuring range, ± 1 digit		/ 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			
	<b>Output</b>	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			
<b>Digital input</b>	Input galv. isolated	<2.4 V OFF; 10 V ON; max. 30 VDC, R <sub>i</sub> ~ 5 kΩ			
<b>Power pack</b>	Supply	100-240 VAC 50/60 Hz / DC ± 10% (max. 5 VA) 24 VDC ± 10%, galvanic isolated (max. 4 VA)			
<b>Memory</b>	EEPROM	Data life ≥ 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:**

