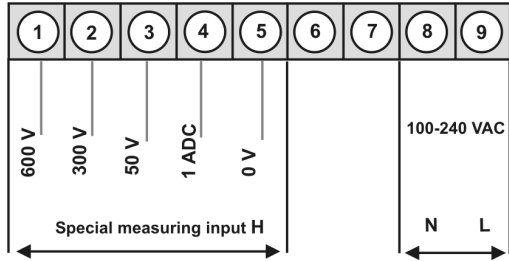




IM3 – 5-digit digital panel meter 96x48 (BxH) Direct voltage / direct current signals 50 VDC, 300 VDC, 600 VDC, 1 ADC

- red display of -19999...99999 digits (optional green, orange, blue or tricolour display)
- installation depth: 120 mm without plug-in screw terminal
- multi voltage power supply unit 100-240 VAC
- adjustment via factory setting or directly on the sensor signal
- min/max-memory with adjustable permanent display
- 30 additional adjustable support points
- display flashing at threshold value exceedance / undercut
- zero keys for the triggering of Hold, Tara, display change, setpoint setting, alarm actuation
- flexible alarm system with adjustable delay times
- volume measurement (Totaliser)
- mathematical functions like reciprocal value, square root, square and 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
- plug-in screw terminal
- optional: 2 or 4 relay outputs or 8 PhotoMos-outputs
- optional: 1 or 2 independently scalable analog outputs
- optional: galv. isolated digital input for the triggering Tara, Hold, display change
- optional: interface RS232 or RS485
- accessories: pc-based configuration-kit PM-TOOL with CD & USB adapter
- on demand: devices for working temperatures of -20°C...60°C or -40°C...70°C

• **Direct voltage, direct current – special measuring input H**

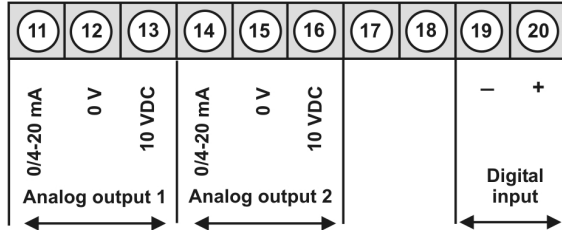


Supply 100-240 VAC, DC ±10%

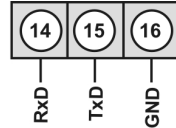
IM3-1VR5B.0H01.S70xD

291.20

Options:

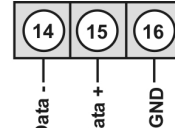


alternative for analog output 2

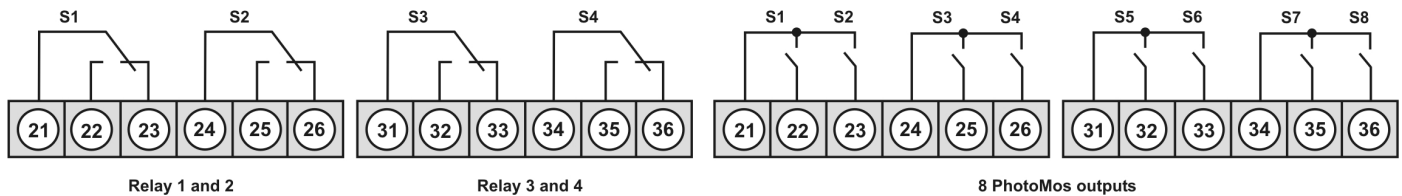


Interface RS232
(Modbus protocol)

or



Interface RS485
(Modbus protocol)



• **Order key options**

IM	3-	1	V	R	5	B.	0	H	0	1.	S	7	0	x	D		EUR	
																2	2 relay outputs	35.00
																4	4 relay outputs	69.90
																8	8 PhotoMos-outputs	95.30
																1	without keypad, operation via PC software PM-TOOL	10.60
																X	Analog output 0/4-20 mA, 0-10 VDC galv. isolated	127.10
																Y	2 analog outputs galv. isolated	254.20
																3	Interface RS232 galv. isolated	58.30
																4	Interface RS485 galv. isolated	58.30
																I	Digital input galv. isolated	10.60
																B	Blue	46.60
																G	Green	10.10
																Y	Orange	10.10
																T	Tricolour (Red-Green-Orange)	31.80

On demand state dimension unit on order, e.g. V.

• **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.

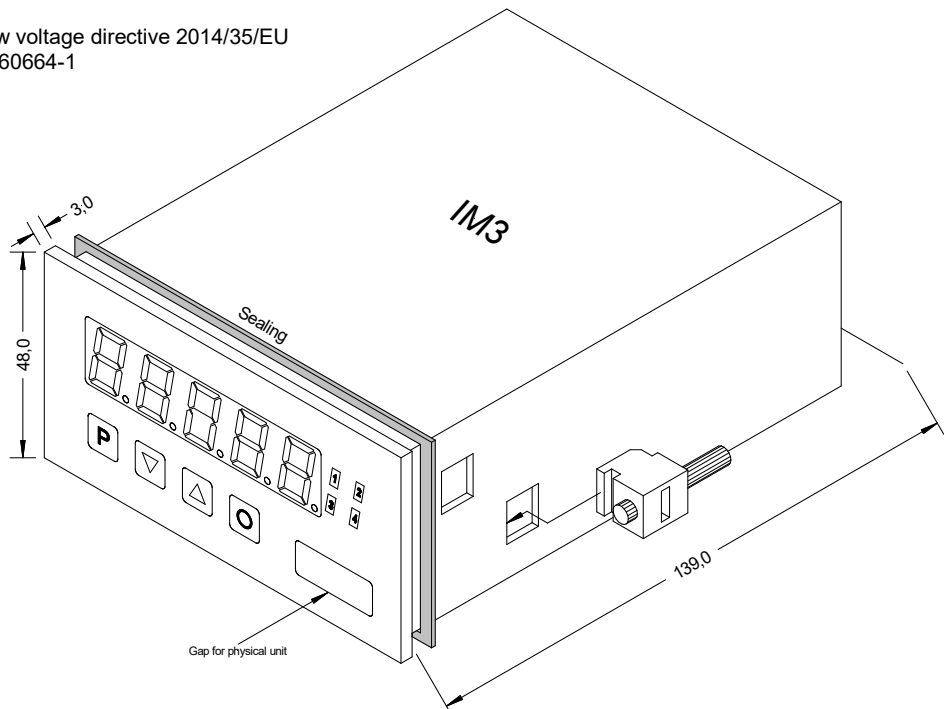
PM-TOOL-MUSB4

94.30

• **Technical data**

Dimensions	Housing	B96 x H48 x D120 mm, (incl. plug-in terminal D = 139 mm)
	Panel cut-out	92.0 ^{+0.8} x 45.0 ^{+0.6} mm
	Fixing	screw elements for insulation thickness up to 15 mm
	Housing material	PC Polycarbonate, black
	Sealing material	EPDM, 65 Shore, black
	Protection type	front side IP65 standard, back side IP00
	Weight	approx. 350 g
	Connection	plug-in terminal; line cross-section up to 2.5 mm ²
Display	Display	5-digit
	Digit height	14 mm
	Segment colour	red (standard), optional available in green, blue, orange or tricolour (red/green/orange)
	Range of display	-19999 to 99999
	Threshold	optical display flashing
	Overflow	horizontal bars at the top
	Underflow	horizontal bars at the bottom
	Display time	0.1 to 10.0 seconds
Messeingang	Measuring span	-600...600 VDC / -300...300 VDC / -50...50 VDC / -1...1 ADC
	Mesuring range	0...600 VDC / 0...300 VDC / 0...50 VDC / 0...1 ADC
	Input resistance	Ri at ~ 2 MΩ / Ri at ~ 1 MΩ / Ri at ~ 200 kΩ / Ri at ~ 0,2 Ω
	Measuring fault	0.5% of final
	Temperature drift	100 ppm/K
	Measuring time	0.1 ... 10.0 seconds
	Measuring principle	U/F- conversion
	Resolution	approx. 18 bit at 1 sec measuring time
Output	Relays	with change-over contact 250 V / 5 AAC, 30 V / 5 ADC
	Switching cycles	10 * 10 ⁵ at 5 AAC, 5 ADC contact rate, 10 * 10 ⁶ mechanically Separation in accordance with DIN EN50178 / Specifications in accordance with DIN EN 60255
	PhotoMos output	NOC contacts: 30 VDC/AC, 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. isolated	< 2.4 V OFF; 10 V ON; max. 30 VDC, R _i ~ 5 kΩ
Interface	Protocol	manufacturer's specifics ASCII
	RS232	9.600 Baud, no parity, 8 DataBit, 1 StopBit, wire length max. 3 m
	RS485	9.600 Baud, no parity, 8 DataBit, 1 StopBit, wire length max. 1000 m
Power pack	Supply	100-240 VAC 50/60 Hz ±10% (max. 15 VA)
Memory	EEPROM	Data life ≥ 100 years at 25°C
Ambient conditions	Working temperature	0 to +60°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

	IM	3-	1	V	R	5	B.	0	H	0	1.	S	7	0	x	D	
Basic type M-Line																	Dimension
																	<input type="checkbox"/> D physical unit (at buyer's option)
Installation depth 139 mm (incl. plug-in terminal)			<input type="checkbox"/> 3														Version
																	<input type="checkbox"/> x internal version
Housing size 96x48x120 mm (BxHxD)																	Switching points
			<input type="checkbox"/> 1														<input type="checkbox"/> 0 no switching point
Display type V, A				<input type="checkbox"/> V													<input type="checkbox"/> 2 2 relay outputs
																	<input type="checkbox"/> 4 4 relay outputs
Display colours																	<input type="checkbox"/> 8 8 PhotoMos-outputs
Blue					<input type="checkbox"/> B												Protection class
Green					<input type="checkbox"/> G												<input type="checkbox"/> 1 Without keypad, operation via PM-TOOL
Red					<input type="checkbox"/> R												<input type="checkbox"/> 7 IP65 / plug-in terminal
Red/Green/Orange					<input type="checkbox"/> T												Voltage supply
Orange					<input type="checkbox"/> Y												<input type="checkbox"/> S 100-240 VAC
Number of digits 5-digit																	Measuring input
																	<input type="checkbox"/> 1 Direct voltage, direct current
Digit height 14 mm																	Analog output
																	<input type="checkbox"/> 0 without
Digital input																	<input type="checkbox"/> X 1x 0-10 VDC, 0/4-20 mA
without																	<input type="checkbox"/> Y 2x 0-10 VDC, 0/4-20 mA
1 digital input					<input type="checkbox"/> I												Special measuring input H
Interface RS232						<input type="checkbox"/> 3	galv. isolated										<input type="checkbox"/> H 50 V, 300 V, 600 V, 1 A
Interface RS485						<input type="checkbox"/> 4	galv. isolated										
Interface RS232						<input type="checkbox"/> C	incl. digital input										
Interface RS485						<input type="checkbox"/> D	incl. digital input										