IM2 – 5-digit digital panel meter in 96x48 mm
(BxH) **Potentiometer >1 kΩ … <1000 kΩ**

- red display of -19999…99999 digits (optional green, orange, blue or tricolour display)
- compact installation depth: 70 mm without plug-in terminal
- adjustment via factory default or directly on the sensor signal
- min/max-memory with adjustable permanent display
- 30 additional adjustable supporting points
- display flashing at threshold value exceedance/undercut
- zero key for actuation of tara-function / hold-function, display change, setpoint setting, alarm actuator
- flexible alarm system with adjustable delay times
- volume measurement (Totaliser)
- mathematical functions like reciprocal value, square root, squaring 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 relay 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…60°C or -40°C…70°C

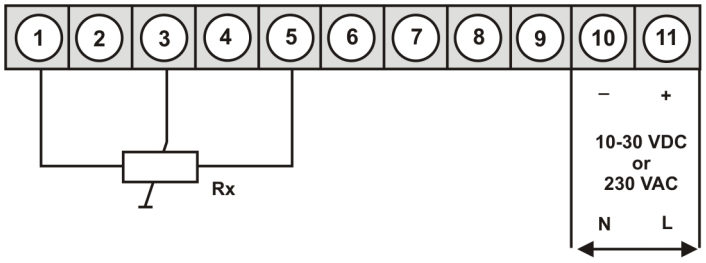
ICS Schneider Messtechnik GmbH
Briesestraße 59
D-16562 Hohen Neuendorf / OT Bergfelde

Tel.: 03303 / 50 40 66
Fax.: 03303 / 50 40 68

info@ics-schneider.de
www.ics-schneider.de

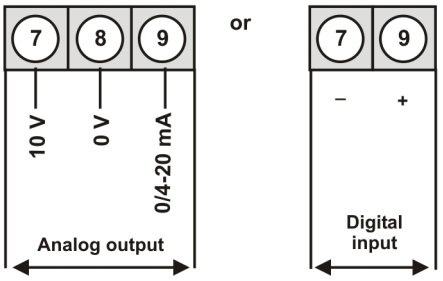
	ORDER NUMBER (without options)	EUR

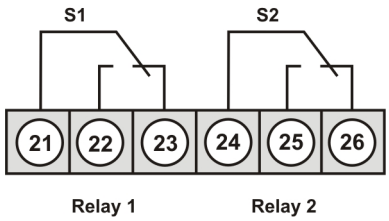
• Potentiometer 0-100 % (>1 kΩ … <1000 kΩ)



Supply 230 VAC	**IM2-1VR5B.0005.570xD**	**199.10**
Supply 10-30 VDC	**IM2-1VR5B.0005.670xD**	**243.60**

Options:





• Product key options

IM	2-	1	V	R	5	B.	0	0	0	5.	5	7	0	x	D
IM	2-	1	V	R	5	B.	0	0	0	5.	6	7	0	x	D

		EUR
D	Dimension/physical unit, customer-specific settings	20.00
2	2 relay outputs	35.00
1	Without keypad, operation via PC software PM-TOOL	10.60
4	Voltage supply 115 VAC	10.90
X	Analog output 0/4-20 mA, 0-10 VDC with 230 VAC	105.90
	Analog output 0/4-20 mA, 0-10 VDC with 10-30 VDC	137.70
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

* Only one option available with 230 VAC voltage supply: relay outputs or analog output.

Please state physical unit on demand, e.g. %.

	ORDER NUMBER	EUR

• Parameterisation software

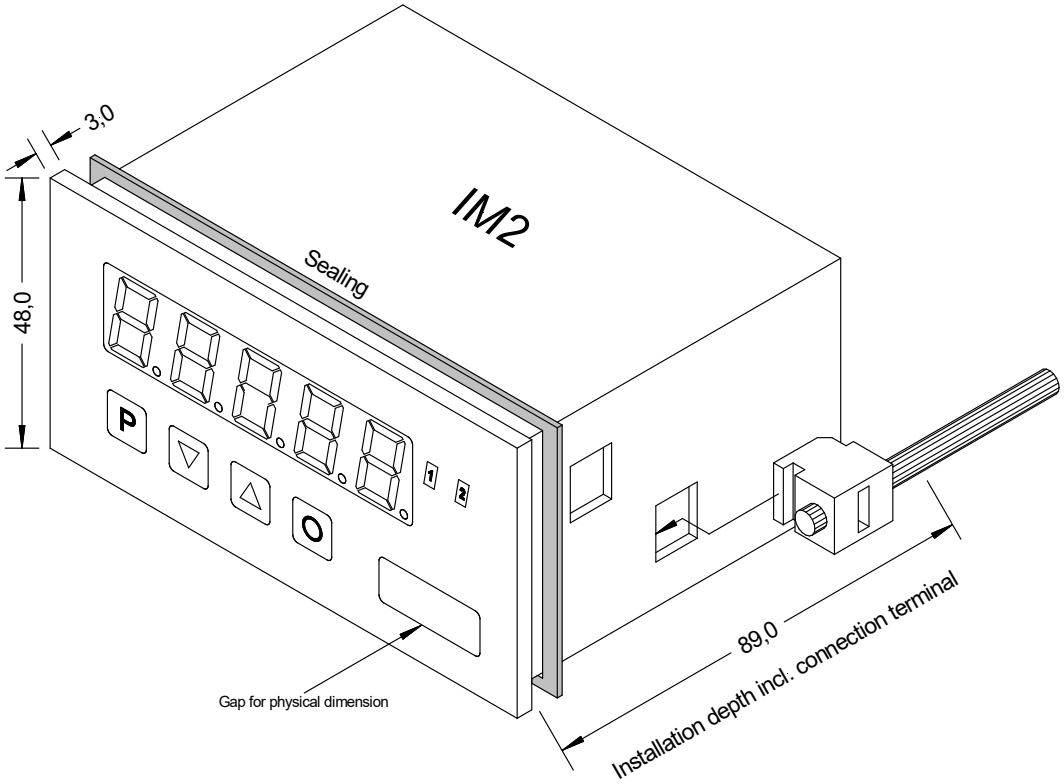
PC based configuration software PM-Tool for devices without keypad, for a simple adjustment of standard devices, incl. USB-adapter. Programming happens via an interface on the back.

PM-TOOL-MUSB4 **94.30**

• Technical data

Dimension	Housing	B96 x H48 x D70 mm (including plug-in terminal D= 89 mm)
	Panel cut-out	$92.0^{+0.8}$ x $45.0^{+0.6}$ mm
	Fixing	screw elements for insulation thickness up to 3 mm
	Housing material	PC Polycarbonate, black
	Sealing material	EPDM, 65 Shore, black
	Protection class	at the front IP65 standard, back side IP00
	Weight	approx. 250 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)
	Display range	-19999 to 99999
	Setpoints	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	>1 kΩ …<1000 kΩ
	Measuring range	0…100 %
	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 sec measuring time
Output	Relay	with change-over contact 250 V / 5 AAC, 30 V / 5 ADC
	Switching cycle	10 * 10^3 at 5 AAC, 5 ADC ohm resistive burden, 10 * 10^6 mechanically Separation in accordance with DIN EN 50178 / Specifications in accordance with DIN EN 60255
	Analog output	0-10 VDC/ burden ≥ 10 kΩ, 0/4-20 mA burden ≤ 500 Ω, 16 bit
Digital input	Input galv. isolated	< 2.4 OFF; > 10 V ON; max. 30 VDC, Ri at ~ 5 kΩ
Power pack	Supply	230 VAC 50/60 Hz ±10% (max. 10 VA) 10-30 VDC, galvanic isolated (max. 4 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	2-	1	V	R	5	B.	0	0	0	5.	5	7	0	x	D

Basic type M-Line

Installation depth

89 mm (incl. plug-in terminal)	2

Housing size

96x48x70 mm (BxHxD)	1

Display type

Potentiometer	V

Display colours

Blue	B
Green	G
Red	R
Red/Green/Orange	T
Orange	Y

Number of digits

5-digit	5

Digit height

14 mm	B

Digital input

without	0
1x digital input	I

Dimension

D	physical unit

Version

x	internal version

Switching points

0	no switching point
2	2 relay outputs
4	4 relay outputs
8	8 PhotoMos outputs

Protection class

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

Supply voltage

4	115 VAC
5	230 VAC
6	10-30 VDC galv. isolated

Measuring input

5	Potentiometer > 1 kΩ … < 1.000 kΩ

Analog output

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

Sensor supply

0	without

ICS Schneider Messtechnik GmbH
Briesestraße 59
D-16562 Hohen Neuendorf / OT Bergfelde

Tel.: 03303 / 50 40 66
Fax.: 03303 / 50 40 68

info@ics-schneider.de
www.ics-schneider.de