IM3 – 5-digit digital panel meter in 96x24 mm (BxH)
Pt100 (3-/4-wire) -200.0°C…850.0°C / -328.0°F…1562.0°F

- red display from -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, alternatively 10-40 VDC galv. isolated
- adjustment via factory setting or directly on the sensor signal
- min/max-memory with adjustable permanent display
- display flashing at threshold value exceedance / undercut
- flexible alarm system with adjustable delay times
- brightness control via parameter or front keys
- programming interlock via access code
- protection class IP65 at the front
- plug-in screw terminal
- optional: 1 or 2 relay outputs
- optional: 1 independently scalable analog output
- optional: interface RS232 or RS485
- 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

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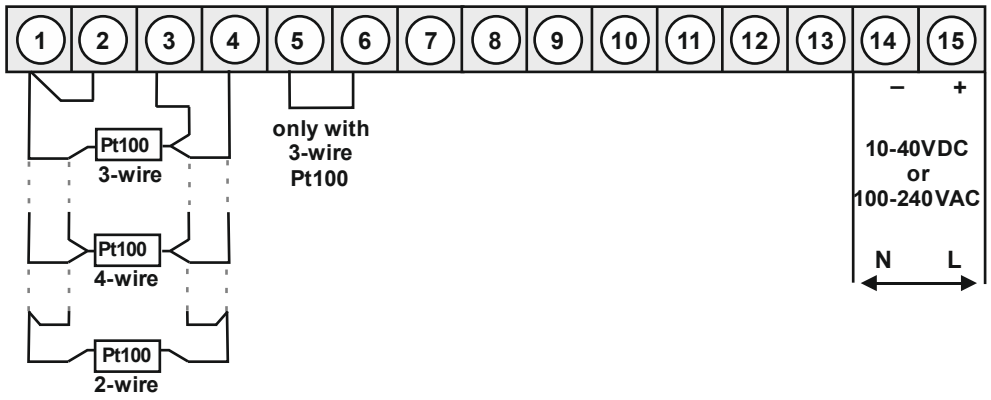
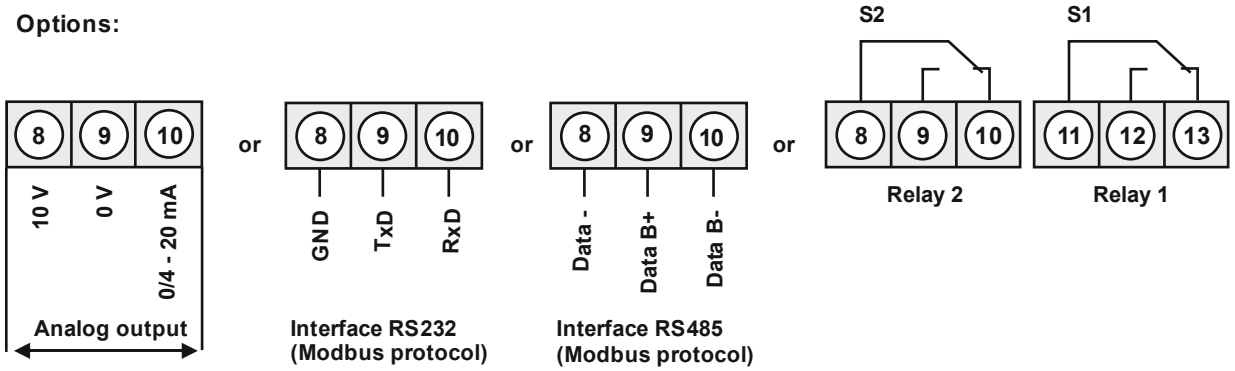
ORDER NUMBER (without options) **EUR**

- **Pt100 (3-/4-wire) -200.0°C…850.0°C / -328.0°F…1562.0°F**

Supply 100-240 VAC, DC ± 10%	**IM3-3TR5B.010C.S70xD**	**280.60**
Supply 10-40 VDC, 18-30 VAC	**IM3-3TR5B.010C.W70xD**	**280.60**



Options:



Alternatively to analog output

- **Product key options**

IM	3-	3	T	R	5	B.	0	1	0	C.	S	7	0	x	D
IM	3-	3	T	R	5	B.	0	1	0	C.	W	7	0	x	D

		EUR
D	Dimension/physical unit, customer-specific settings	20.20
1	1 relay output (with option analog output only 1 switching point is possible)	21.20
2	2 relay outputs	31.80
1	without keypad, operation via PC software PM-TOOL	10.60
X	analog output 0/4-20 mA, 0-10 VDC	105.90
3	interface RS232 galv. isolated	68.80
4	interface RS485 galv. isolated	68.80
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. °F.

• Parameterisation software

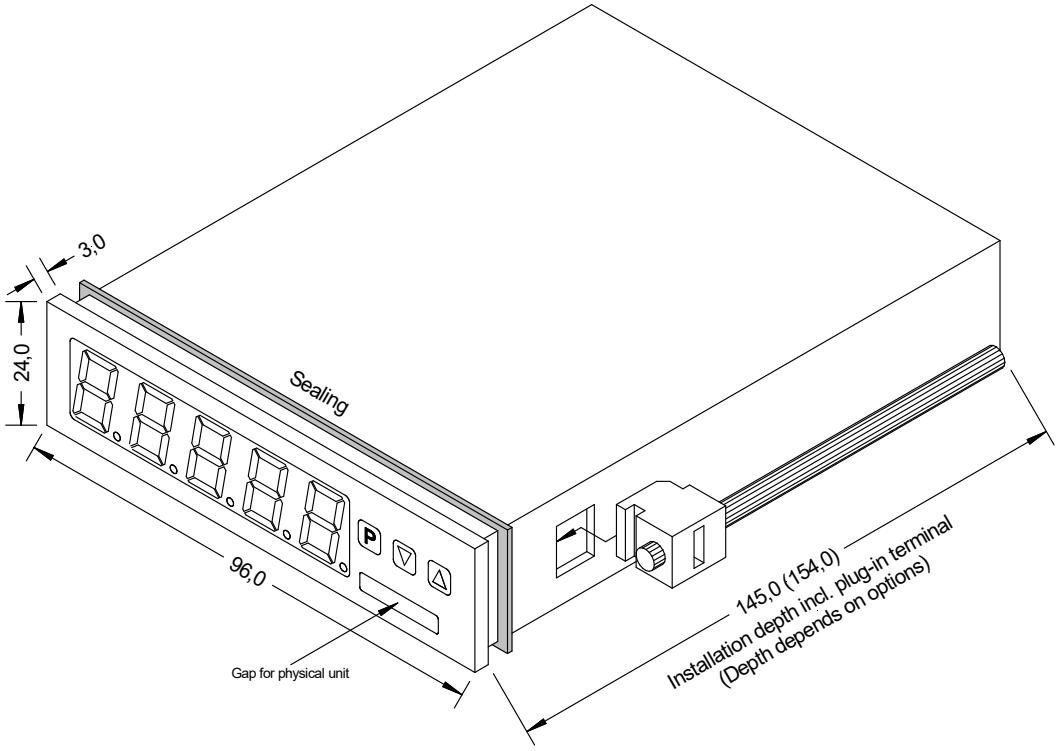
PC based configuration software PM-Tool for devices without keypad, for a simple adjustment of standard devices, incl. USB-adapter. Programming happens via an interface on the back.

PM-TOOL-MUSB4 **94.30**

• Technical data

Dimensions	Housing	B96 x H24 x D120 mm, (incl. plug-in terminal D= 145 mm cable outlet at the back)
	Panel cut-out	$92.0^{+0.8}$ x $22.2^{+0.3}$ mm
	Fixing	screw elements for a wall thickness up to 10 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. 250 g
	Connection	plug-in terminal; wire cross section up to 2.5 mm^2
Display	Display	5-digit
	Digit height	14 mm
	Segment colour	red (standard), optional in green, orange, blue or tricolour (red/green/orange)
	Range of display	-19999 to 99999
	Threshold value	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	Measuring range	-200.0°C…850.0°C / -328.0°F…1562.0°F
	Measuring fault	0.1% of measuring range, ± 1 digit
	Temperature drift	100 ppm/K
	Measuring time	0.1 … 10.0 seconds
	Measuring principle	U/F-conversion
	Resolution	0.1°C or 0.1°F
Output	Relay	with change-over contact 250 V / 2 AAC, 30 V / 2 ADC
	Switching cycle	30 * 10^3 at 2 AAC, 2 ADC Ohm resistive burden, 10 * 10^6 mechanically Separation according to DIN EN50178 / Specific values according to DIN EN 60255
	Analog output	0-10 VDC / burden ≥ 10 kΩ, 0/4-20 mA / burden ≤ 500 Ω, 16 bit
Interface	Protocol	Modbus with ASCII or RTU-protocol
	RS232	9.600 Baud, no parity, 8 DataBit, 1 StopBit, pipeline length max. 3 m
	RS485	9.600 Baud, no parity, 8 DataBit, 1 StopBit, pipeline length max. 1000 m
Power pack	Supply	100-240 VAC 50/60 Hz, DC ±10 % (max. 10 VA) 10-40 VDC galv. isolated, 18-30 VAC 50/60 Hz (max. 10 VA)
Memory	EEPROM	Data preservation ≥ 100 years at 25°C
Ambient condition	Working temperature	0°C to +50°C
	Storing temperature	-20°C 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-	3	T	R	5	B.	0	1	0	C.	W	7	0	x	D

Standard type M-Line

Installation depth

145 mm incl. plug-in terminal (154 mm)	3

Housing size

96x24x120 mm (BxHxT)	3

Display type

Temperature	T

Display colours

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

Number of digits

5-digits	5

Digit height

14 mm	B

Digital input

without	0
Interface RS232	3
Interface RS485	4

Dimension

D	physical unit

Version

x	internal version

Switching points

0	without
1	1 relay output
2	2 relay outputs

Protection class

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

Supply voltage

S	100-240 VAC
W	10-40 VDC

Measuring input

C	Pt100 -200°C…850°C

Analog output

0	without
X	1x 0-10 VDC, 0/4-20 mA

Temperature devices

1	Pt100 3-/4-wire

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