

■ Programmable Meter for Temperatures Model TM 2500

Highlights

- THERMOCOUPLE
- RTD
- VOLTAGES
- DIN HOUSING 48 x 24 mm
- ISOLATED POWER SUPPLY
- PLUG_IN SCREW TERMINALS

Standard functions

Modes

- Thermocouple Type K, J, S, L, and R
- RTD (2-wire/3-wire modes)
- Voltages 0 200 mV and 0 2 V

Software functions

- · Scaling for voltage input channels
- · Digital filtering
- · Max value detection
- · Programmable decimal point
- Last digit steps: 1, 2, 5 or 10
- · Display test

Digital input channels

The instrument is provided with 3 digital input channels at the rear. These digital input channels are low active. With the aid of the digital inputs are carried out following functions:

- Programming
- · Display test
- · Reset of max. value

Power supply

The TM 2500 is provided for DC supply voltages. Using DC/DC converters the power supply is isolated from internal electronic and from all input channels. The TM 2500 can be delivered supplied with the following supply voltages:

- 18 .. 36 V DC isolated
- · optional 12 V DC isolated
- optional 5 V DC isolated

Construction

The meter TM 2500 has a 4 digit resolution. Digits are 8 mm in height. The meter is presented in standard 1/32 DIN format with short depth (68.2 mm). The meter fit a 45mm x 22.2mm standard 1/32 DIN cut-out.



We have special conditions for this device! Availability and prices only on demand.

The front of the instrument is drip proof and is dust tight.

The meter comes complete with brackets and plug in screw terminal connectors.

Programming

The meter is user programmable via external push buttons connected to the screw terminal at the rear. The programming is easy and clearly arranged. By means of a programming menue the user is taken through this programming. The programming is carried out through the digital input channels.

Options

Housing type

- Panel mounting DIN 43700
- Mosaic system mounting (Subklev, Siemens 8RU)

Colour of the front frame

- Black
- Grey coloured RAL 7037
- Grey coloured RAL 7032
- Grey coloured RAL 7035

Design of the front

- · Without front foil
- Front foil ALU
- Front foil RAL 7032
- Front foil RAL 7035
- Unit label

Display colour

- Red
- Green

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Digital Panel Meter

Technical data

: 4 decades, 8 mm, red Display

(opt. green) :-999 .. 9999 : 5 /s

Measuring ranges:

Display range Display Rate

Thermocouple Ni-CrNi (K) Accuracy

: -100 to +1370 °C : ± 1°C, ± 1 Digit (>200°C) : -100 to 1000°C Fe-CuNi (J) : ± 1°C, ± 1 Digit Accuracy PtRh90/10%-Pt (S) : 0 to 1750°C

: ± 1°C, ± 1 Digit (>250°C) Accuracy Fe-CuNi (L) : -100 to +900°C Accuracy ± 1°C, ± 1 Digit PtRh87/13%-Pt (R) : 0 to 1590°C

: ± 1°C, ± 1 Digit (>200°C) Accuracy : internal 0 to 50°C Ice Point Compensation

Accuracy : ± 1°C

RTD

: 2-wire / 3-wire Modes Resolution : 0.1°C or 1 °C Accuracy : ± 1°C

Voltages

Range 1 : 0 to 200 mV, ± 0.1%, ± 1 Digit : 0 to 2 V, ± 0.01%, ± 1 Digit Range 2

Digital input channels: < 0.4 VLow level

High level : > 3,5 V, max. 30 V

Input resistance:

Input 1-4 : 10 k Ω to +5V Input 5 : 10 $k\Omega$ to GND

Power supply DC 18 V to 36 V DC, isolated optional 12 V DC, ± 10 %, isolated optional 5 V DC, ± 10 %, isolated : approx. 25 mA (red), 24 VDC Power consumption approx. 40 mA (green), 24VDC Housing panel mounting DIN 43700

48 x 24 x 60 mm Dimensions Depth < 70 mm incl. screw terminal

Protection front IP 40

EMV EMV-conform with 89/336/EWG

Operating temperature : 0 .. 50 °C

Ordering information

TM 2500 -							
					Hous	sing	
					0	Panel mounting	
					1	Panel clip	
				Fron	nt frame colour		
				0	Black	<	
				1	Grey	coloured RAL 7037	
				2	Grey	coloured RAL 7032	
				3	Grey	coloured RAL 7035	
		Front design					
			0	Without front foil			
			1	Front foil ALU eloxiert			
			2	Front	foil R	RAL 7032	
			3	Front foil RAL 7035			
		Disp	lay colour				
		0	Red				
		1 Green					
	Power supply						
	0	5 V DC, ± 10%, isolated					
	1	12 V DC, ± 10 %, isolated					
	2	18 36 V DC, isolated					

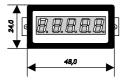
Unit label

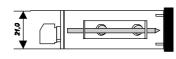
Please specify in clear text at order !

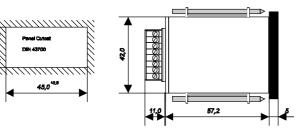
We have special conditions for this device! Availability and prices only on demand.

Dimensions

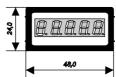
Panel Mounting



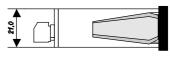




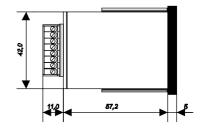
Panel Clip







Mosaic Systems: Siemens 8RU (M50x25) Subklev



datas en.vp/05.08

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