

Universal-Digital Panelmeter MINIPAN 300

in Housing for Panel-Mount 36 x 72 mm

MINIPAN 300



With its 4 digit, 14 mm high display, Digital Panelmeters of MINIPAN 300- series allow the accurate display of different values in the range -1999 ... +9999.

Only 3 designs cover the measuring of DC voltage and current, AC voltage and current and temperature with Pt 100-sensors (RTD).

The display can be easily programmed by the customer (e.g. input 0-10 V --> display 0-350.0 ms or AC 0-1 A --> 0-400.0 A

With the built-in universal power-supply AC/DC 24-240 V it is especially versatile.

Inputs DC-Meter:

- Measuring of current with external shunt max. 300 mV
- 1 A for direct measuring of current
- 0/4-20 mA for standard-signals
- 0-10 V for standard-signals
- 100/500 V switchable

Inputs AC-Meter:

- 500 V
- 50 V
- 10 V
- Measuring of current with external shunt max.150 mV
- 1 A for direct measuring of current or with external transformers

Measuring of Temperature Pt 100 (RTD):

- Pt 100 in 2- or 3-wire connection
- Measuring Range -199,9 ... +850,0 °C
- Resolution 0,1 °C
- Display in °C or °F

Easy programming with 3 buttons

- Display (skaling, decimal-point)
- Display of MIN- and MAX-values
- Delay at unstable signals
- Code-lock against manipulation of settings

Additional Features:

- Sticker with different measuring units included
- Terminals pluggable
- Face-Plate 36 x 72 mm

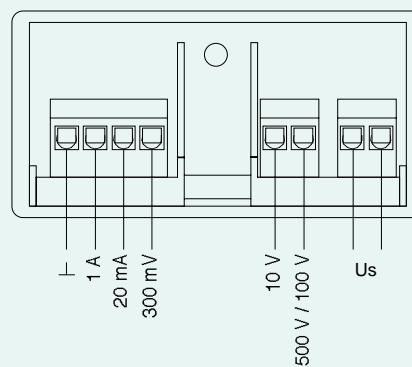
Option:

Programming of parameters ex works

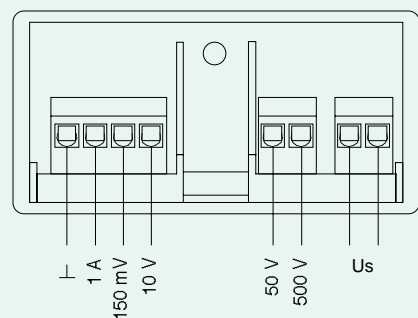
Order-numbers:

MINIPAN 300 / DC	D 440300
MINIPAN 300 / AC	D 440320
MINIPAN 300 / Pt 100	D 440340

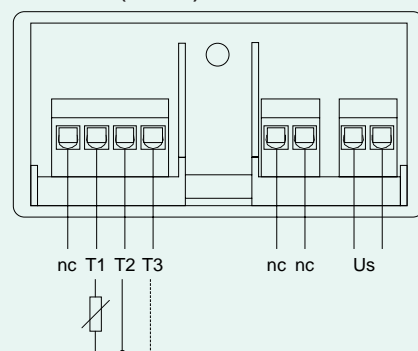
DC



AC



Pt 100 (RTD)



Electrical Data

MINIPAN 300

Power supply	rated supply-voltage U_s	AC/DC 24-240 V
	tolerance DC	DC 20 - 297 V (0,85 x 24 V...1,35 x 220 V)
	tolerance AC	AC 20 - 264 V (0,85 x 24 V...1,1 x 240 V)
	power consumption	< 3 VA
	frequency	48...62 Hz
Measuring inputs	(do always connect 1 input only)	potentially separated from supply-voltage
	DC-Meter	$\pm 300 \text{ mV}$ / 120 k Ω / max. $\pm 2,5 \text{ V}$
	measuring-range / resistance of input / overload capacity	$\pm 10.00 \text{ V}$ / 1 M Ω / max. $\pm 50 \text{ V}$ + 500.0 V / -199.9 V / 3 M Ω / max. $\pm 600 \text{ V}$ + 100.0 V / -100.0 V / 3 M Ω / max. $\pm 600 \text{ V}$ + 20.00 mA / -19.99 mA / Shunt 15 Ω / max. $\pm 100 \text{ mA}$ $\pm 1.00 \text{ A}$ / Shunt 150 m Ω / max. $\pm 2 \text{ A}$
	AC-Meter	150 mV / 900 Ω / max. 2,5 V
	measuring-range / resistance of input / overload capacity	10.00 V / 100 k Ω / max. 50 V 50.0 V / 1 M Ω / max. 60 V 500.0 V / 3 M Ω / max. 600 V 1.00 A / Shunt 150 m Ω / max. 2 A
	Temperature Pt 100 (RTD) sensor-input	- 199,9 ... + 850,0 °C (= -328 ... +1563 °F) Pt 100, 2- or 3-wire connection max. 3 x 50 Ω
	resistance 3-wire measuring time AC/DC measuring time Pt 100	<400 ms <400 ms
Accuracy	resolution	+9999 / -1999
	error (of full measuring range)	
	DC-voltage, DC-current	$\pm 0,1 \%$ ± 1 Digit
	AC-voltage, AC current	$\pm 0,5 \%$ ± 1 Digit
	temperature factor	$\pm 0,02 \%$ / K
	total error at temperature-measuring	$\pm 0,3 \%$ of value $\pm 0,5 \text{ K}$
	temperature factor	$\pm 0,03 \text{ °C} / \text{K}$

Mechanical Data

housing dimensions (h x w x d) mm	panel-mount housing 36 x 72 x 79 mm
terminals	8-pole
Attachment	panel-mount, panel cutout 33 ^{+0,6} x 68 ^{+0,6} mm max. thickness of panel 8 mm
protection housing/ protection terminals	IP 30 IP 20
weight	ca. 120 g

Order Notice

Programming ex works:

If you want us to deliver the devices readily programmed ex works (extra charge), please specify in your order the following parameters (see also operating manual):

Measuring Input	e.g. 100 V
Mesuring Range	e.g. 20...80 V, no specification = measuring input
Display Range	e.g.. 0...500,0 (do not forget the decimal point)
Number of fixed zeros at the end	0, 1 oder 2
Delay of Display	e.g. 1 s
Code-lock	yes/no

bold = compulsory