

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 especial 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 Pt100 (RTD):

- Pt100 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:

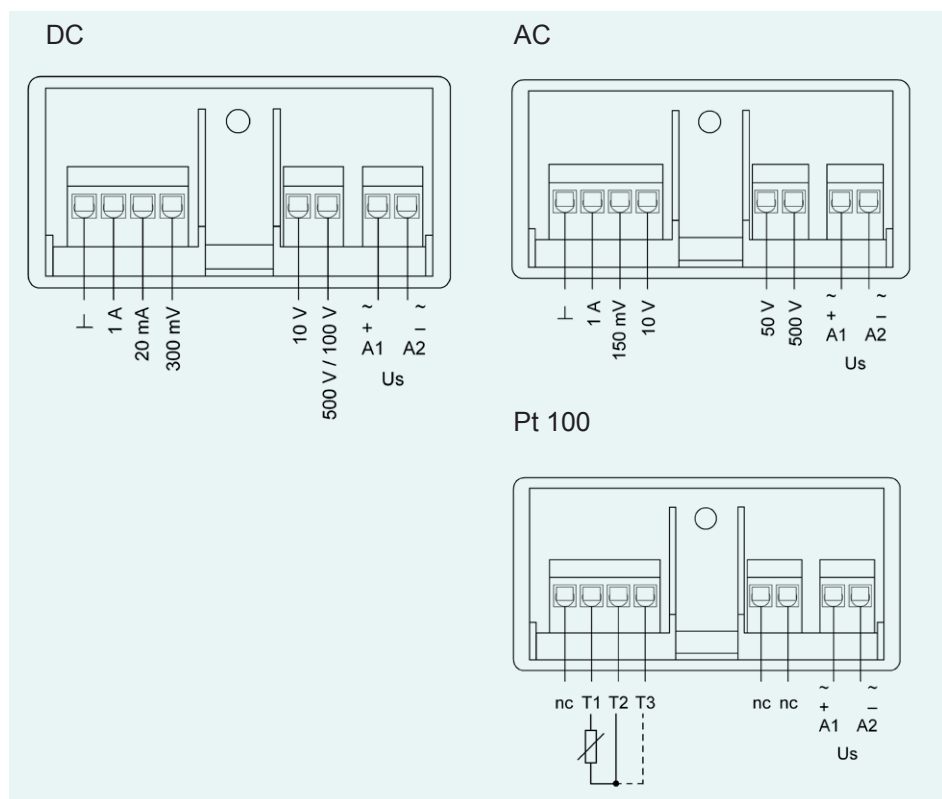
- Sticker with different measuring units included
- Terminals pluggable
- Face-Plate 36 x 72 mm

Option:

Programming of parameters ex works

Order-numbers:

MINIPAN 300 DC	D440300
MINIPAN 300 AC	D440320
MINIPAN 300 Pt 100	D440340



Technical Data MINIPAN 300

Power supply	rated supply-voltage Us tolerance DC tolerance AC power consumption frequency	AC/DC 24-240 V DC 20 - 297 V (0,85 x 24 V...1,35 x 220 V) AC 20 - 264 V (0,85 x 24 V...1,1 x 240 V) < 3 VA 48...62 Hz
Measuring inputs	(always connect 1 input only)	potentially separated from supply-voltage
	DC-Meter measuring-range / resistance of input / overload capacity	± 300 mV / 120 kΩ / max. ±2,5 V ± 10.00 V / 1 MΩ / max. ±50 V + 500.0 V / -199.9 V / 3 MΩ / max. ±600 V + 100.0 V / -100.0 V / 3 MΩ / max. ±600 V + 20.00 mA / -19.99 mA/ Shunt 15 Ω/ max. ±100 mA ± 1.00 A / Shunt 150 mΩ / max. ±2 A
	AC-Meter measuring-range / resistance of input / overload capacity	150 mV / 900 Ω / max. 2,5 V 10.00 V / 100 kΩ / max. 50 V 50.0 V / 1 MΩ / max. 60 V 500.0 V / 3 MΩ / max. 600 V 1.00 A / Shunt 150 mΩ / max. 2 A
	Temperature Pt 100 (RTD) sensor-input resistance 3-wire measuring time AC/DC measuring time Pt 100	- 199,9 ... + 850,0 °C (= -328 ... +1563 °F) Pt 100, 2- or 3-wire connection max. 3 x 50 Ω <400 ms <400 ms
Accuracy	resolution error (of full measuring range) DC-voltage, DC-current AC-voltage, AC current temperature factor total error at temperature-measuring temperature factor	+9999 / -1999 ± 0,1 % ± 1 Digit ± 0,5 % ± 1 Digit ± 0,02 % / K ± 0,3 % of value ± 0,5 K ± 0,03 °C / K
Housing	Design 300 dimensions (h x w x d) mm Attachment Single wire Fine wired with end sleeves Rated ambient temperature range protection housing/terminals weight	panel-mount housing 36 x 72 x 79 mm panel-mount, panel cutout 33 ^{+0,6} x 68 ^{+0,6} mm max. thickness of panel 8 mm 1 x 0,5...1,5 mm ² 1 x 0,14...1 mm ² -20...+60 °C IP 30/IP 20 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):	
bold = compulsory	Measuring Input Measuring Range Display Range Number of fixed zeros at the end Delay of Display Code-lock	e.g. 100 V e.g. 20...80 V, no specification = measuring input e.g.. 0...500,0 (do not forget the decimal point) 0, 1 oder 2 e.g. 1 s yes/no