

# Universal-Display MINIPAN 350 V in Housing for DIN-Rail-Mount

## MINIPAN 350 V



With its 4 digit, 7 mm high display, Digital measuring-instruments of MINIPAN 350 V- 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:

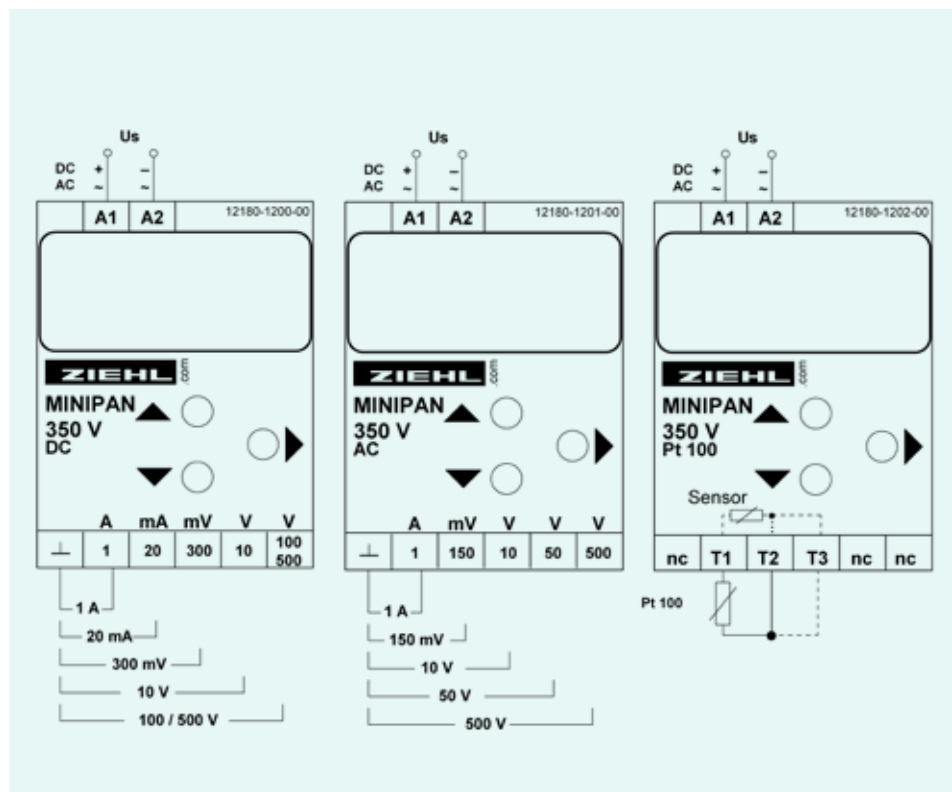
- Sticker with different measuring units included
- Terminals pluggable
- Mounting-height 55 mm, 70 mm wide

### Option:

Programming of parameters ex works

### Order-numbers:

MINIPAN 350 V / DC	D 890100
MINIPAN 350 V / AC	D 890210
MINIPAN 350 V / Pt 100	D 890310



Electrical Data	MINIPAN 350 V
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<b>Power supply</b>	rated supply-voltage $U_s$ 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
<b>Measuring inputs</b>	(do always connect 1 input only)  DC-Meter measuring-range / resistance of input / overload capacity  AC-Meter measuring-range / resistance of input / overload capacity  Temperature Pt 100 (RTD) sensor-input resistance 3-wire  measuring time AC/DC measuring time Pt 100	potentially separated from supply-voltage  <b><math>\pm 300</math> mV</b> / 120 k $\Omega$ / max. $\pm 2,5$ V <b><math>\pm 10.00</math> V</b> / 1 M $\Omega$ / max. $\pm 50$ V <b>+ 500.0 V</b> / <b>-199.9 V</b> / 3 M $\Omega$ / max. $\pm 600$ V <b>+ 100.0 V</b> / <b>-100.0 V</b> / 3 M $\Omega$ / max. $\pm 600$ V <b>+ 20.00 mA</b> / -19.99 mA/ Shunt 15 $\Omega$ / max. $\pm 100$ mA <b><math>\pm 1.00</math> A</b> / Shunt 150 m $\Omega$ / max. $\pm 2$ A  <b>150 mV</b> / 900 $\Omega$ / max. 2,5 V <b>10.00 V</b> / 100 k $\Omega$ / max. 50 V <b>50.0 V</b> / 1 M $\Omega$ / max. 60 V <b>500.0 V</b> / 3 M $\Omega$ / max. 600 V <b>1.00 A</b> / Shunt 150 m $\Omega$ / max. 2 A  <b>- 199,9 ... + 850,0 °C</b> (= -328 ... +1563 °F) Pt 100, 2- or 3-wire connection max. 3 x 50 $\Omega$  <400 ms <400 ms
<b>Accuracy</b>	resolution error (of full measuring range) DC-voltage, DC-current AC-voltage, AC current temperature factor total error at temperature-measuring ring temperature factor	+9999 / -1999  $\pm 0,1$ % $\pm 1$ Digit $\pm 0,5$ % $\pm 1$ Digit $\pm 0,02$ % / K  $\pm 0,3$ % of value $\pm 0,5$ K $\pm 0,03$ °C / K

Mechanical Data	
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housing dimensions (h x w x d) mm terminals	design V2 90 x 35 x 58 mm, mounting height 55 mm 8-pole
Attachment	on 35 mm DIN-rail or with screws M4
ambient temperature range protection housing/ protection terminals weight	-20...+60 °C IP 30 IP 20 app. 120 g