

Universal-Instrument MINIPAN SE352

in Housing for Panel-Mount 48 x 96 mm

MINIPAN SE352



Part numbers:

D440101

D440110 with analog output

With its 4 digit, 14 mm high display, Digital Panelmeters of MINIPAN SE 352-series allow the accurate display of different values in the range -1999 ... +9999.

Measuring inputs AC (True RMS), DC current and voltage and of resistance and of temperatures with various sensors are combined in one instrument.

Two programmable switching points allow applications as limit-switch or 2- or 3-point controller.

With **EasyLimit** the switching points can be set easily. Other parameters are blocked and thus protected from unintended manipulation.

With its analog output (option) it is in addition a measuring-transducer.

The display can be easily programmed by the user (e.g. input DC 4-20 mA/display 0-350.0 m/s or 0...200 Ω / 0...3000 mm or AC 0-5 A / 0-400.0 A).

In addition the built-in universal power-supply AC/DC 24-240 V makes it even more versatile.

• Temperature:

- Pt 100 (RTD) , Pt 1000, KTY 83 and KTY 84 in 2- or 3-wire connection
- Thermocouples type B, E, J, K, L, N, R, S, T
- Measuring range -170 ... +1820 °C

- Resolution 0.1 °C (up to 999.9 C)
- Display in °C or °F

• AC/DC-measuring inputs:

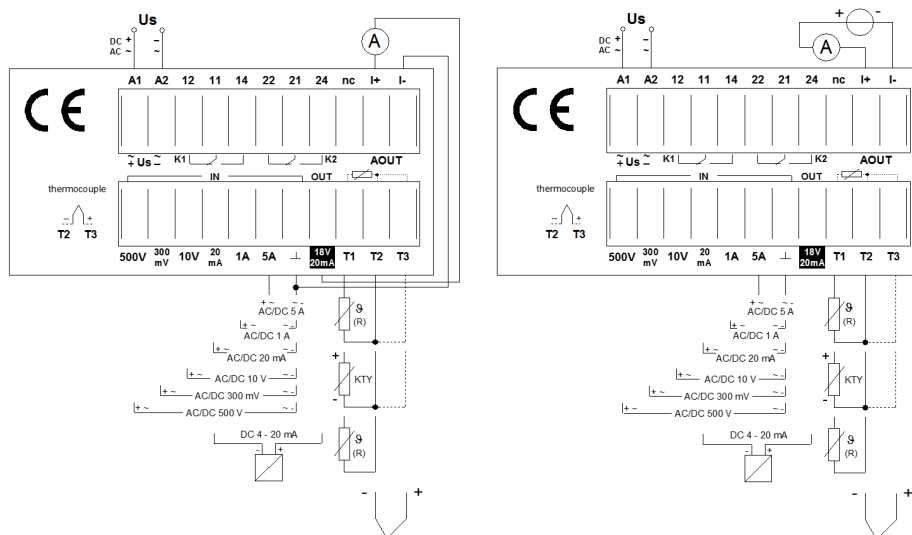
- 300 mV for measuring current with external shunt
- 1 and 5 A for direct measuring of current (or AC with external transformer)
- 500 V
- 10 V for standard signals
- 20 mA for standard signals
- AC-measuring TrueRMS

• Measuring of resistance:

- Ranges 0...500 Ω, 0...30 kΩ

• Easy programming with 3 buttons and supporting display:

- Display (zero, fullscale, decimal point)
- 2 switching points with hysteresis and delays
- **EasyLimit** for easy setting of alarms
- Switching with automatic reset or interlocked
- MIN/MAX-contacts or operating-/closed current mode of relays
- Storage of MIN- and MAX-values
- Average of multiple measurements
- Simulation of operation
- Code-lock against manipulation of settings
- Outputs 2 potential-free change-over contacts (co)
- Supply-voltage for external measuring transducer 4-20 mA
- Sticker with different measuring units included
- Terminals pluggable
- Mounting dimensions 48 x 96 mm
- Splash-proof frontside IP54
- Supply-voltage AC/DC 24-240 V
- Option: analog output 4...20 mA (insulated when externally supplied)



Technical Data MINIPAN SE352

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 W, < 10 VA
	Frequency	48...62 Hz
Measuring inputs		potentially separated from supply-voltage (always connect 1 input only at the same time)
	DC-measuring Measuring-range / input- Resistance / overload capacity	± 300 mV / 29 kΩ / max. ±2,5 V ± 10.00 V / 1 MΩ / max. ±50 V ± 500.0 V / 3 MΩ / max. ±600 V ± 20.00 mA / Shunt 8 Ω / max. ±100 mA ± 1.00 A / Shunt 150 mΩ / max. ±2 A ± 5.00 A / Shunt 30 mΩ / max. ±7,5 A for 10 s
	AC-measuring Measuring-range / input- Resistance / overload capacity	300 mV / 20 kΩ / max. 2,5 V 10.00 V / 1 MΩ / max. 50 V 500.0 V / 3 MΩ / max. 600 V 20.00 mA / Shunt 8 Ω / max. 100 mA 1.00 A / Shunt 150 mΩ / max. 2 A 5.00 A / Shunt 30 mΩ / max. 7,5 A for 10 s
	Messuring of resistance	0...500 Ω, 0... 30 kΩ
	Temperature-measuring Sensor-input	- 199,9 ... + 850,0 °C (= -328 ... +1563 °F) Pt 100, Pt 1000, KTY 83, KTY 84, 2- or 3-wire con- nection, line-resistance max. 3x 50 Ω
	Thermocouples	B, E, J, K, L, N, R, S, T
	Measuring time DC	< 300 ms x Ø
	Measuring time AC	< 700 ms + 300 ms x Ø
	Measuring time temperature + Resistance	< 600 ms (3-wire + thermocouple) < 300 ms (2-wire)
	Output	Relay output
Analog output		4-20 mA (insulated when externally supplied)
Supply-voltage for loop-powered measuring transducer and analog output		DC 15-20 V / 25 mA
Accuracy	Resolution	-1999 / +9999
	Error DC (of FullScale)	± 0,1 % ± 1 Digit ± 0,02 % K
	Error AC (of FullScale)	± 0,5 % ± 1 Digit ± 0,05 % K
	Error resistance (of value)	500 Ω: 0,2 % ± 0,5 Ω 30 kΩ: 0,5 % ± 2 Ω
	Error Pt 100 (of value)	± 0,2 % ± 0,5 K ± 0,04 °C/K
Housing		panel-mount housing
	Dimensions (h x w x d) mm	48 x 96 x 100 mm
	Attachment	panel-mount, panel cutout 45 ^{+0,6} x 92 ^{+0,8} mm max. thickness of panel: 8 mm
	Rated ambient temperature- range	-20...+60 °C
	Protection housing	front-side IP 54, back-side IP 20
Protection terminals	IP 20	
Weight	approx. 240 g	