

## Features



- DC-signals 0 to 200 V resp. 0 to 200 mA
- Temperature measurement with Pt 100-sensor
- 3½-digit 7 segment LED, red
- Display range from - 1999 to + 1999 free scaling

## Display

<b>Display</b>	7-Segment display, 8 mm LED red
<b>Display range</b>	± 1999 digit
<b>Decimal point</b>	Via solder pads
<b>Error indication</b>	Display „1“ at overrange or sensor break Display „-1“ at underrange

## Measurement functions

<b>Meas. range attitude</b>	Via solder pads and scaling resistor Rs at terminal
<b>Method of measurement</b>	Dual slope
<b>Sampling rate</b>	Approx. 2,5 / sec.
<b>Response time</b>	< 2 sec. at 100% step
<b>Input signals</b>	Voltage, current (DC), Pt 100
<b>Measuring range</b> U/I	0 ... 10 V, 0 (4) ... 20 mA ± 0,2 / ± 2 / ± 20 / ± 200 V / mA Accuracy: ≤ ± 1 digit ± 0,15 % of display range Temp. effect: ≤ ± 0,08 digit / K (related to 25 °C) Gain adjustment: max. ± 20 % Offset adjustment: max. ± 500 digit
<b>Pt 100</b>	- 100,0 ... + 199,9 °C Accuracy: ≤ ± 0,2 K ± 0,2 % of display range Temp. effect: ≤ ± 0,02 K / K (related to 25 °C) - 200 ... + 700 °C Accuracy: ≤ ± 1 K ± 0,2 % of display range Temp. effect: ≤ ± 0,04 K / K (related to 25 °C)
	Connection for 2-wire (max. 3 Ω resistance), 3- or 4-wire sensors (each. max. 100 Ω resistance) Wire effect: 3-wire connection: ≤ ± 0,01 K / Ω 4-wire connection: ≤ ± 0,002 K / Ω Distribution: 4-wire connection, meas. range: -100,0 ... +199,9°C

## Voltage supply

<b>Supply voltage</b>	5V <sub>DC</sub> 4,5-5,5V <sub>DC</sub> , 12V <sub>DC</sub> 12-13,2V <sub>DC</sub> , 24V <sub>DC</sub> 22,3 – 26,4V <sub>DC</sub> , galvanic isolated, ripple max. 100mVss
<b>Protection</b>	Protection against pole reversal
<b>Power consumption</b>	max. 50 mA

## Dimensions

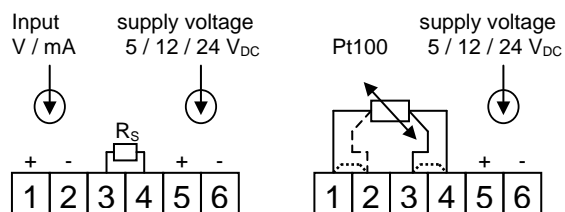
<b>Size</b>	approx. 48 x 24 x 78 [mm] (W x H x L) incl. terminal
<b>Panel cut out</b>	45 x 22,2 [mm]
<b>Mounting depth</b>	ca. 72 mm
<b>Material</b>	Glass-fibre reinforced Noryl, hardly inflammable
<b>Weight</b>	ca. 50 g
<b>Panel thickness</b>	max. 5 mm
<b>Attachment</b>	via 2 attachment elements

## Environment

<b>Ambient temperature</b>	0 ... 50 °C, no dew allowed
<b>Protection</b>	Front panel IP 50, terminal block IP 20 (DIN 40050, IEC 144)
<b>Protective class</b>	II (prof. isolation)

## Connection

<b>Interconnection techn.</b>	Terminal screw with wire protection for max. 1,5 mm <sup>2</sup>
<b>Connecting diagram</b>	



Date: May 2005  
Changes may occur without notice!