

Digital Display DP1002

Features

- Input signal selectable: 0-20mA, 4-20mA, 0-10Volt
- Display in °C for the novasens 2050 or quantity in % for the novasens 2000
- LED Display 14,2 mm red
- Indicating range and decimal point free programmable
- Conversion rate programmable 8/s, 2/s, 0,5/s
- Analog output 0 ... 10 V DC
- Front Protection IP65



General

The Digital LED Display novasens DP 1002 is used to display measured values, which are issued from the measurement systems novasens 2050 and novasens 2000. The display can be switched in °C for connecting the novasens 2050 Infrared Temperature Controller or the issue of quantity of glue in % when connecting the novasens 2000 Hotmelt Application Controller.

Technical Data

Power supply

Supply voltage:	230/115 V AC 50/60 Hz ± 10 % or 24 V DC ± 20 %
Power consumption:	3 VA
Working temperature:	-10 ... +60 °C
Rated voltage:	250V~ acc. VDE 0110 between input, output/supply voltage Degree of pollution 2, over-voltage categoric III
Test voltage:	4 kV=, between input, output/supply voltage
CE-conformity:	EN55022, EN60555, IEC61000-4-3/4/5/11/13

Input

Current input:	0/4 ... 20 mA Ri 10 Ω overload max. 3-times
Voltage input:	0 ... 10 V Ri 100 k Ω overload max. 3-times
Accuracy:	Voltage $\pm 0,1$ %, ± 1 Digit;

Temperature Coefficient

Voltage/current:	0,005 %/K
RTD/Pt100:	0,01 °/K

Display:

Indicating range:	-1999 ... 2000 Digit, leading zero suppression
Decimal point:	programmable
Overflow indication:	overflow "-1999" or "9999" flashing with 2 Hz
Display brightness (Option):	step less from 2 ... 100 %, with photo sensor

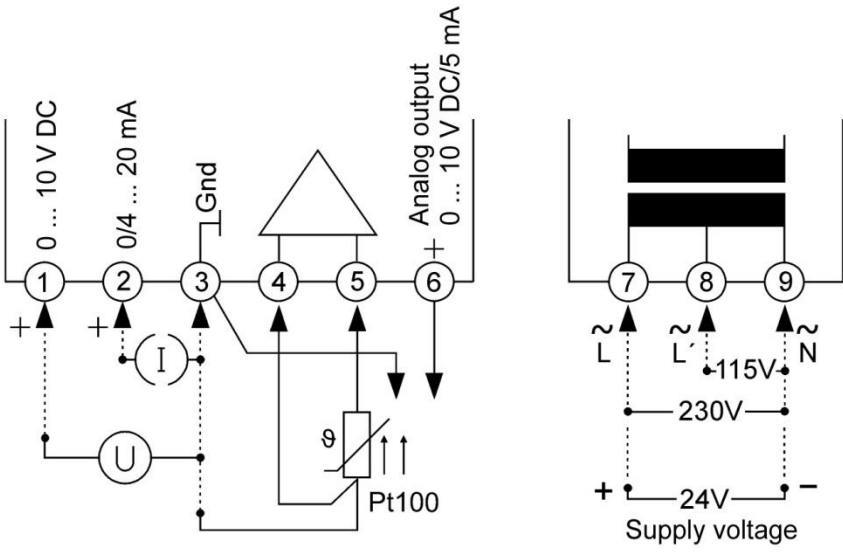
Analog output

Voltage:	0 ... 10 V DC, max. 5 mA, linearized, short circuit proof
Accuracy:	0,1 %
Temperature Coefficient:	0,005 %/K

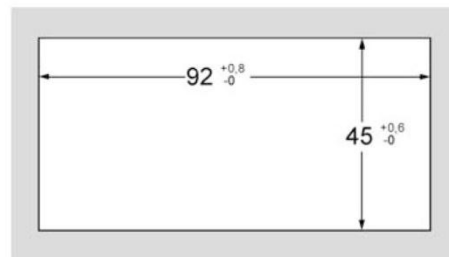
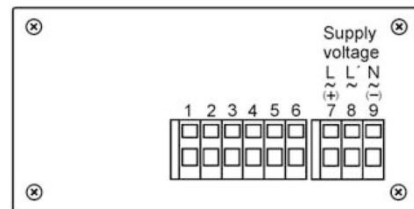
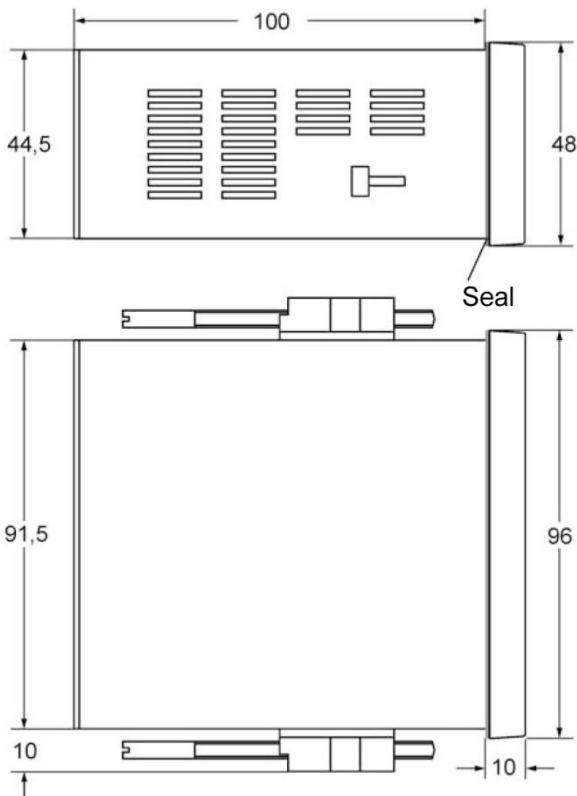
Case:

Dimensions:	DIN 96x48 mm, material PA6-GF; UL94 V-0
Weight:	300 g
Connection:	Clamp terminals, 2 mm ² single wire, 1,5 mm ² flexible wire, AWG14
Protection:	Front IP65, front IP20, fingersafe acc. German BGV A3

Connection diagram

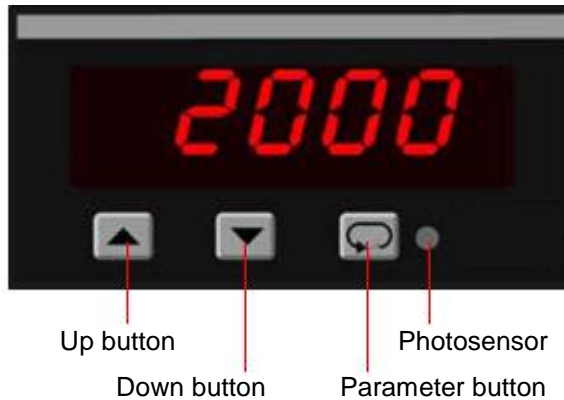


Dimensions



Panel cut-out
 acc. to DIN 43700-96x48

Displays and controls











Description

Programming of the panelmeter is at the configuration level.

After switching on the supply voltage, the device initializes itself. The display shows the message *r.n.t.*

After the initializing procedure the device is located in the working level.

Activating the button  for more than 2 seconds, the program is located in the configuration area. Value or selection with  or . To change the selected parameter press  button. With the buttons  and  the value can be changed. Entering data with button .

After finishing the configuration or when longer than 2 minutes no button was pushed, the program jumps back to the working level. Leaving the configuration level is possible at any time by pushing the button  for 2 seconds.

Error codes

Display flashes *Err.* input signal is more than 3% outside of the programmed measurement range.

Err. please ship the panelmeter to factory for repair service.


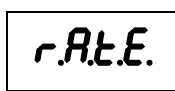





L.o.c. Program lockout. See configuration page 4.

Start-up note:

Before the device can be used, it must be configured for the intended use.

Please note: All parameters can be called if they are not blocked by other programmed parameters and if they are available. Factory settings are shown in the display graphic.

Configuration

Button	Display	Description
 2 s press		Conversion rate Press  button <i>8. r.t.</i> 8 measurements per second <i>2. r.t.</i> 2 measurements per second <i>0.5. r.t.</i> 0,5 measurements per second
		Selection with button  and  . Entering with button  .

