novasens Sensortechnik Heuer
Loehnfeld 26, 21423 Winsen/Luhe - Germany, www.novasens.de
Tel: +49 (0) 4171-6694595, Fax: +49 (0) 4171-6696396,
info@novasens.de

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

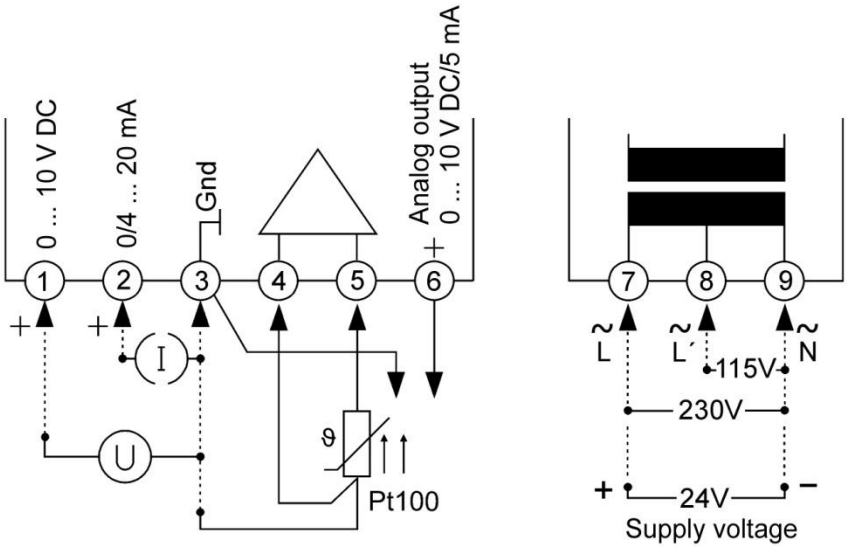
The Digital LED Display novasens DP 1002 is used to display measured values, which are issued from the measurement systems novasens 2050 and novasens 2000. The display can be switched in °C for connecting the novasens 2050 Infrared Temperature Controller or the issue of quantity of glue in % when connecting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

Technical Data

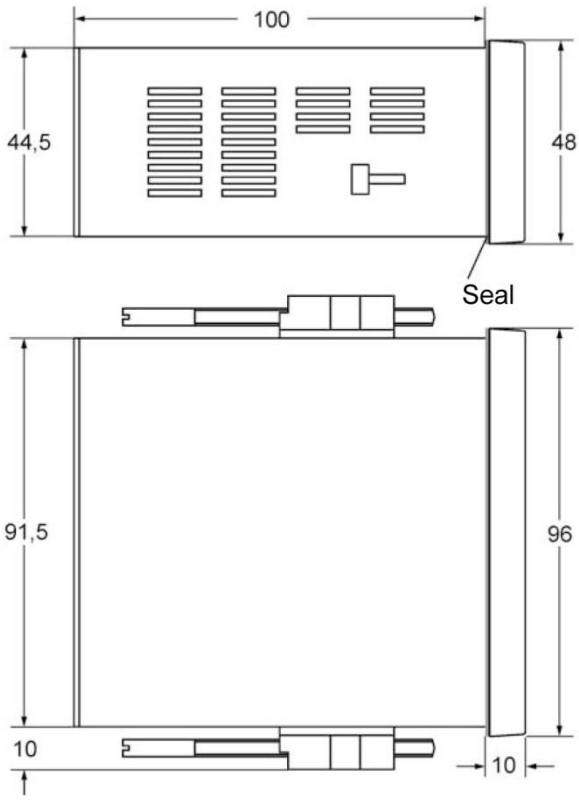
Power supply	
Supply voltage:	230/115 V AC 50/60 Hz ±10 % or 24 V DC ±20 %
Power consumption:	3 VA
Working temperature:	-10 ... +60 °C
Rated voltage:	250V~ acc. VDE 0110 between input, output/supply voltage Degree of pollution 2, over-voltage categoric III
Test voltage:	4 kV=, between input, output/supply 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 kΩ overload max. 3-times
Accuracy:	Voltage ±0,1 %, ±1 Digit;
Temperature Coefficient	
Voltage/current:	0,005 %/K
RTD/Pt100:	0,01 °/K
Display:	LED red 14,2 mm
Indicating range:	-1999 ... 2000 Digit, leading zero supression
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:	DIN 96x48 mm, material PA6-GF; UL94 V-0
Dimensions:	Front 96x48 mm, mounting depth 100 mm
Weight:	300 g
Connection:	Clamp terminals, 2 mm² single wire, 1,5 mm² flexible wire, AWG14
Protection:	Front IP65, front IP20, fingersafe acc. German BGV A3

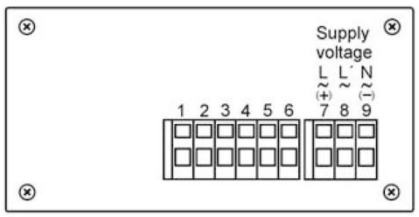
novasens Sensortechnik Heuer
Loehnfeld 26, 21423 Winsen/Luhe - Germany, www.novasens.de
Tel: +49 (0) 4171-6694595, Fax: +49 (0) 4171-6696396,
info@novasens.de

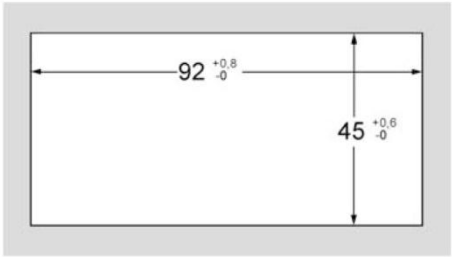
Connection diagram



Dimensions



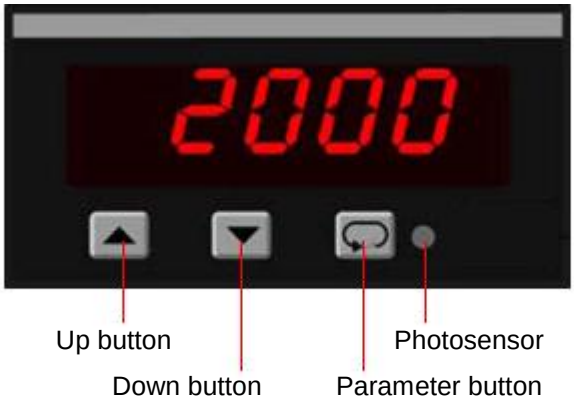




Panel cut-out
acc. to DIN 43700-96x48

novasens Sensortechnik Heuer
Loehnfeld 26, 21423 Winsen/Luhe - Germany, www.novasens.de
Tel: +49 (0) 4171-6694595, Fax: +49 (0) 4171-6696396,
info@novasens.de

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 **in it.**
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	input signal is more than 3% outside of the programmed measurement range.
Err.	please ship the panelmeter to factory for repair service.
Loc.	Program lockout. See configuration page 4.

Start-up note:
Before the device can be used, it must be configurated 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	**rAtE.**	Conversion rate Press button **8. /t.** 8 measurments per second **2. /t.** 2 measurements per second **0.5. /t.** 0,5 measurements per second
		Selection with button and . Entering with button .

novasens Sensortechnik Heuer
Loehnfeld 26, 21423 Winsen/Luhe - Germany, www.novasens.de
Tel: +49 (0) 4171-6694595, Fax: +49 (0) 4171-6696396,
info@novasens.de

I.n.P.

Input Signal
Press button
0. -. 10. . 0. -. 20. . 4. -. 20. . P. t.
Selection with button and . Entering with button .

d.P.

Decimal point position
Press button
0. .0. .0. 0. .0. 0. 0.
Selection with button and . Entering with button .

S.t.

Startvalue for indicating range
Press button
Setting possible from -. 1. 9. 9. 9. . . . 2. 0. 0. 0. Digit
with button and . Entering with button .

E.n.

Endvalue for indicating range
Press button
Setting possible from -. 1. 9. 9. 9. . . . 2. 0. 0. 0. Digit
with button and . Entering with button .

c.o.r.r.

Indicating correction
Press button
Setting possible from -. 9. 9. . . . 9. 9. Digit
with button and . Entering with button .

d.i .

Self-acting display brightness (only with Option 07)
Press button
o. n. . o. F. F.
Selection with buttons and . Entering with button .

c.o.d.E.

Code for factory settings

L.o.c.

Parameter lockout
Press button
o. F. F. no lock
o.n. Parameter locked
Selection with button and . Entering with button .

2.0.0.0.

Back to the working level