

(Large 38 mm high digits)
Display viewing distance up to 40m

- Transmitter supply 24VDC
- Input 0-20, 4-20mA, 0-5, 1-5, 0-10, 2-10VDC
- Pt-100, Pt500, Pt1000, K,S, J, T, N, R, B, E
- 4-digit LED 38mm height
- Programmable measuring range
- Programmable hysteresis
- Password protected
- Root, square or 20 point linearization
- Volume characteristics of cylindrical tanks.
- Programmable display brightness
- 2 or 4 programmable alarm relays
- Output 0-20 or 4-20mA (option)
- Signal peak detection
- Programmable digital filter
- Calibration and self-calibration
- RS485 MODBUS RTU

DESCRIPTION

The BASI programmable process indicator BDI147 is designed for wide range of control applications. It is equipped with a large 4-digit LED display with 38 mm digit height and 2 or 4 programmable relay alarm outputs. BDI147 has an input accepting signals from Pt100, Pt500, Pt1000, thermocouple as well as linear current or voltage signals from external transmitters. This process indicator has a built-in circuit for self-testing and self-calibration and automatic software compensation of line resistance. The display-to-input correspondence (in case of linear input) and possibility to programming linear, root, square and user defined 20 point. The decimal point position, temperature measuring unit as well as the offset value are also programmable through the convenient keyboard. Thanks to its large display, universal input, and serial interface RS485 MODBUS RTU as well as the excellent price-to-performance ratio, BDI147 is exceptionally widely applicable device.

TECHNICAL SPECIFICATIONS

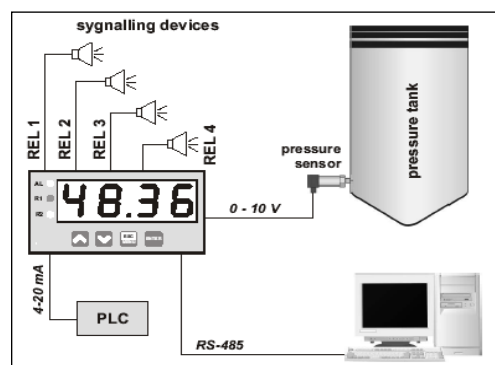
Construction : Panel design to standard DIN 144 x 72mm
Wiring : Screw terminals at rear panel
Housing : Noryl-GFN2SE1
Isolation : Input to supply
Indication : Red LED 4-digit height, 38mm

INPUT

Pt-100-500-1000 : -100 – 600°C 3 or 4-wire
Thermocouple : K,S, J, T, N, R, B, E
Voltage : 0-5, 1-5, 0-10 or 2-10VDC
Current : 0-20, 4-20mA
Indication : -999 till +9999

OUTPUT

Current : 0/4-20mA load 700 ohm
Relay : 2 or 4 relay or OC
Contacts : 250VAC, 1A
Relay : 10⁷ operations
Transistor : Open collector 30V/30mA
Communication : RS485 MODBUS RTU isolated
Sensor supply : 24VDC/100mA



INSTALLATION

Supply : 85 to 260VAC/DC, 16 to 35VAC or 19 to 50VDC
Ambient temp : -10 to +50°C, RH 0 to 85%
Storage temp : -10 to +70°C
Mounting : Panel with bracket
Protection class : IP40 IP65 front (option), IP20 rear
Dimension : B144 x H72 x D102mm
Weight : 400g

PERFORMANCE

Accuracy error : < ±0.05% FS
Display : Red LED 4-digit height, 20
Power consumption : 4.5VA
Isolation : Input to output to supply (3-way) 2300VDC/AC peak

EMC : EN 50081-1, EN 50082-2, EN 61010-1 EN 61010-1/A2:1999

ORDER INFORMATION



BDI147-1XXX-1-X-XX1

options:

00 : no options
 01 : IP 65 frame

power supply:

3 : 24V AC/DC
 4 : 85V - 260V AC/DC

type of outputs:

0 : no output
 1 : REL (for 2 and 4)
 2 : OC (for 2 and 4)
 3 : 2 x REL + current out
 4 : 2 x OC + current out

number of outputs:

0

2

3

4

type of input:

3 : thermoresistance

A : thermocouple

8 V, mA



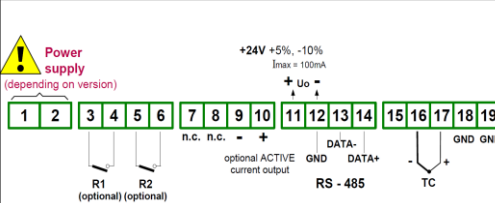
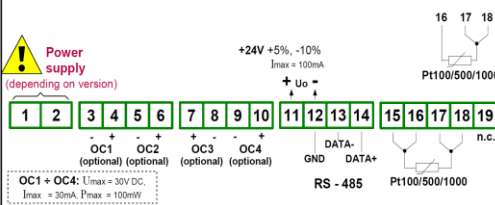
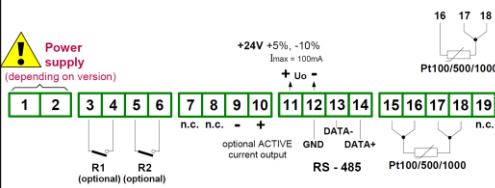
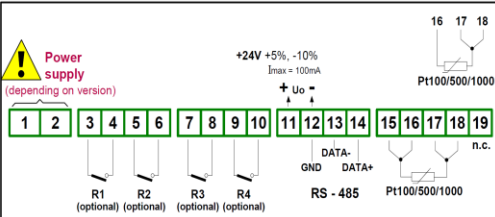
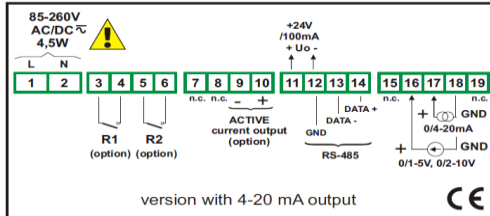
We are pleased to announce that we have recently added to BASI meters range a new feature, **the volume characteristics of cylindrical tanks**.

The following combinations of tank shapes for volume calculation are now possible:

cylindrical tank in vertical position							
cylindrical tank in horizontal position							
parameter s setting (for vertical and horizontal position of tank)	t h2=0 t h3=0	t h3=0	t h2=0	t h1=0 t h3=0	-	t h1=0	t h1=0 t h2=0

The new feature is available with the following products: **BDI49, BDI 73, BDI 77, BDI94, BDI 147, BDI 457, BDI118.**

CONNECTION



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Universal intelligent digital indicator

BDI147

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