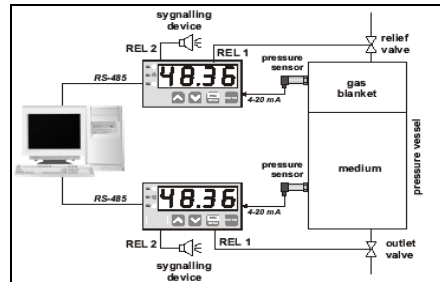


- Transmitter supply 21VDC
- Input 0-20, 4-20mA, 0-5, 1-5, 0-10, 2-10VDC
- 0-50, 0-75, 0-100, 0-150mV
- Pt-100, Pt500, Pt1000 or K, S, J, T, N, R, B, E
- 4-digit LED 13mm height
- 5 digit 9mm height IP65
- Programmable measuring range
- Programmable hysteresis
- Password protected
- Root, square or 20 point linearization
- Volume characteristics of cylindrical tanks
- 1 or 2 programmable alarm relays (optional)
- Programmable digital filter
- Calibration and self-calibration
- RS485 MODBUS RTU



DESCRIPTION

The BASI programmable process indicator BDI73 is designed for wide range of control applications. It is equipped with a 4-digit LED display with 13 mm digit height and optional 1 or 2 programmable relay alarm outputs. BDI73 has an input accepting signals from Pt100, Pt500, Pt1000 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 optional serial interface RS485 MODBUS RTU as well as the excellent price-to-performance ratio, BDI73 is exceptionally widely applicable device.

TECHNICAL SPECIFICATIONS

Construction : Panel design to standard DIN 72 x 36mm
Wiring : Screw terminals at rear panel
Housing : NORYL GFN2SE1
Isolation : Input to supply
Indication : Red-green LED 4-digit height, 13mm IP40 or
 Red LED 5 digit height 9mm IP65 (option)

INPUT

Pt-100-500-1000 : 100 – 600°C 3 or 4-wire
Thermocouple K : -200°C ÷ +1370°C
S: -50°C ÷ +1768°C
J: -210°C ÷ +1200°C
T: -200°C ÷ +400°C
N: -200°C ÷ +1300°C
R: -50°C ÷ +1768°C;
B: +250°C ÷ +1820°C
E: -200°C ÷ +1000°C

Additional range : -10 ÷ +90 mV
Voltage : 0-5, 1-5, 0-10 or 2-10VDC
 0-60, 0-75, 0-100, 0-150 mV

Input Resistance : typ 50 kohm
Current : 0-20, 4-20mA
Input Resistance : typ 55 ohm
Indication : -999 till +9999

OUTPUT

Relay : 1 or 2
Contacts : 250VAC, 1A
Relay : 10⁷ operations
Transistor : Open collector 30V/30mA
Communication : RS485 MODBUS RTU
Sensor supply : 24VDC +5% -10% /100mA

INSTALLATION

Supply : 85-260VAC/DC, 19-50VDC(16-35VAC)
Ambient temp : -0 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 : B72 x H36 x D97mm
Weight : 180g

PERFORMANCE

Accuracy error : < ±0.15% FS
Display : Red-Green LED 4 x 13mm IP40
 Or red LED 5 x 9mm IP65 front
Power consumption : 1.5VA (3,5W 24VDC)
Isolation : Input to output to supply (3-way)
 2300VDC/AC peak
 (230VAC version)
EMC : EN 50081-1, EN 50082-2, EN 61010-1
 EN 61010-1/A2:1999

ORDER INFORMATION

BDI-73-1XXX-1-X-XX1

options:

00 : no options
01 : IP 65 frame

power supply:

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

type of input:

8 : 0-20mA,
 4-20mA,
 0/1-5V,
 0/2-10V
C : 0-60/75/
 100/150mV

type of outputs:

0 : no output
1 : REL
2 : OC

number of outputs:

0
1
2
3: RTD
A: TC
S: RS485 (BDI-S-0000-1-xx1)



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							
parameters 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, BDI73, BDI77, BDI94, BDI147, BDI457, BDI118**

CONNECTION

