

(Large 20, 32 or 45 mm high digits)
Display viewing distance up to 30m

- Transmitter supply (12) 24VDC
- Universal input 0-20, 4-20mA, 0-50mV, Pt-100
- Pt-1000, PTC or thermocouple J, K, T, R, S, B
- 4-digit LED 20 or 32mm height
- 3-digit LED 45mm height
- Universal programmable input
- Two programmable alarm relays
- Programmable digital filter
- Calibration and self-calibration
- RS485 serial interface (option)

DESCRIPTION

The BASI programmable process indicator BDI67 is designed for wide range of control applications. It is equipped with a large 4-digit LED display with 20 or 32 or 3-digit 45 mm digit height and two programmable relay alarm outputs. BDI67 has a universal input accepting signals from Pt100, Pt1000, PTC, 6 thermocouple types 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, manual measurement offset setting, and automatic software compensation of line resistance and cold junction temperature. The display-to-input correspondence (in case of linear input), 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 as well as the excellent price-to-performance ratio, BDI67 is exceptionally widely applicable device.



TECHNICAL SPECIFICATIONS

Construction : Panel design to standard DIN
Wiring : Screw terminals at rear panel
Housing : ABS Plastic black
Isolation : Input to supply
Indication : Red LED 4-digit height, 20mm

INPUT

Thermocouple R,S: 0-1700 °C
K : -20-1300 °C
J : -20-1000 °C
B : 100-1800 °C
T : -40-400 °C
Pt-100 : -100.0 – 850.0°CJIS or DIN
Pt-1000 : -100.0 – 600.0°CJIS or DIN
PTC 1k at 25°C : -50.0 – 150.0°CJIS or DIN
PTC 2k at 25°C : -50.0 – 150.0°CJIS or DIN
Voltage : 0 – 10VDC
Current : 0-20, 4-20mA
Special : On request
Indication : -1999 till +9999
Sensor comp : Full scale

OUTPUT

Relay : 1 or 2
Contacts : 250VAC/DC, 5A
Relay : 10⁷ operations
SSR : 1 or 2, 250VAC 1A
Transistor : Open collector 60V/100mA
Extern SSR : 5-24V, 50mA
Sensor supply : (12)24VDC/50mA
Communication : RS485 isolated MODEBUS (ASCII)
Sensor supply : 24VDC/30mA

INSTALLATION

Supply : 90 to 250VAC/DC or 12 to 24VAC/DC
Ambient temp : -10 to +65°C, RH 0 to 85%
Storage temp : -20 to +80°C
Mounting : Panel with bracket
Protection class : IP54 front (IP65 only type H), IP20 rear
Dimension : B96 x H48 x D98mm (type H)
 B144 x H72 x D66mm (type D3, D4)
Weight : 400g (type H) 600g (type D)

PERFORMANCE

Accuracy error : < ±0.1% FS
Time lag : 100mS, temp 200mS
Display : Red LED 3 or 4-digit
 height, 20, 32 or 45mm
Power consumption : 2VA
Memory back-up : Non-volatile EEPROM
Isolation : Input to output to supply (3-way)
 1500VDC/AC peak
EMC : EN 50081-1, EN 50082-2, EN 61010-1
 72/23/EEC & 89/336/EEC

ORDER INFORMATION



BDI67

CASE	SUPPLY	OUTPUT	COMMUNICATION
H 96x48	A 230VAC	X None	X None
D3 144x72	B 115VAC	C Relay	M RS485
D4 144x72	C 90-250V	D SSR	
4 digit	Q 12-24V	E NPN	
	R 24VAC	J Ext. SSR	

INPUT

X Standard Universal
 Z Specify