

- Tri-color fully programmable
- 30-dot LED bargraph
- 3-digit bright LED indication
- Digital design with programmable parameters
- Current or voltage input signals
- Universal linear input
- Up to 2 alarm relays available with pulsed output
- DIN 48 x 96mm
- DOT or BAR-indication programmable modes
- Custom design bar-graph and scale available
- Transmitter supply 24VDC/40mA

### DESCRIPTION

BBI250 is a versatile and non-expensive programmable process indicator and a fully programmable Tri-color LED bargraph in 48x96mm DIN case. It is designed for wide range of display applications with/without relay alarm. Equipped with a bright 3-digit LED display, this model is suitable for measuring and controlling various technological values from -199 to 999 with programmable resolution. The device may be also equipped with up to 2 programmable relays providing ON/OFF control/alarm with or without pulse mode. BBI250 bargraph display allows user programming of every LED dot color, dot/bar display mode as well as customized scale. The unit accepts various linear input voltage or current signals. Display limits, decimal point position, measurement offset value as well as many other parameters are fully programmable. Thanks to its rich display features and excellent price-to-performance ratio, BBI250 can be a very useful and widely applicable device.

### SPECIFICATIONS GENERAL

**Construction** : Panel design to standard  
DIN 48 x 96mm

**Wiring** : Screw terminals at rear panel

**Housing material** : Plastic Black

**Indication** : 30 LED dots, 2 mm wide  
3 LED indicator, 10 mm

### INPUT

**Voltage** : 0-5 to 10VDC, max 40V

**Current** : 0-20, 4-20mA, max 100mA

**Custom linear** : Option (3)

**Two-wire external transmitter**: 4...20 mA (1)

### OUTPUT

(up to 2 relay outputs)

**Relay** : 3A/250V NO/NC contact

**SSR** : 1A/250VAC

**MOS gate** : 0,1A/60V isolated

**Extern SSR** : 5-24V, 30mA

**Control algorithm** : ON/OFF, pulse mode

**Alarms** : Programmable

### INSTALLATION

**Supply** : 230 VAC or 115 VAC,  
90...250 VAC/DC  
12...24 VAC/DC or 24 VAC

**Operating temp** : -10 to +65°C

**Storage temp** : -20 to +65°C

**Operating humidity** : 85% RH max (non-condensing)

**Mounting** : Panel with bracket

**Size** : W48 x H96 x D107mm  
Mounting depth 98mm

**Weight** : 300g including bracket

**Protection class** : Front IP54 (IP65 option)  
Screw terminals IP20

### OUTPUT

**Transmitter supply** : 24VDC/40mA



### PERFORMANCE (% of span)

**Accuracy Bargraph** : 3,33% FS

**Display** : Tri-color 30 LED dots, 2 mm wide

**Programmable** : Red, green, or yellow

**Accuracy Digital display** : 0,3% FS

**Display** : 3 digit LED indicator, 10 mm

**Temp coefficient** : 0.02%°C

**Power consumption** : 3VA

**EMC** : EN 50081-1, EN 50082-2,  
EN 61010-1



- (1) Provides loop supply voltage - 24 VDC (only w/ isolated power supply)
- (2) Ordered separately (see 'Accessories')
- (3) Specify when order

### ORDER INFORMATION

#### BBI250

SUPPLY	BARGRAPH	OUTPUT	PROTECTION
A 230VAC	Z Specify	X Non	X Standard
B 115VAC	D Standard	C Relay	P IP65
C 90-250V		D SSR	
Q 12-24V		J Ext. SSR	
R 24VAC		M MOS gate	
P 12-24V			
Non Isolation			
E 9/12VAC (2)			
Ext. Trafo.			
<b>Customer specified input signal</b>			
X None			
Z Specify			