



- **Built-in Linearization for Thermocouple (optional)**
- **Provide analog and digital indication to the corresponding input signal**
- **Single channel with or without alarm**
- **More reliable with high MTBF**
- **In built CJC for Thermocouple Input**
- **THREE wire lead length compensation for RTD Inputs**
- **Retransmission Output(Optional)**
- **Online span and zero adjustments**

APPLICATION

The CBGI Indicator find applications in the process industries for accurate and reliable monitoring of various process parameters. This model accepts thermocouple, RTD inputs facilitating temperature measurement of remote boilers. Thus this instrument is suitable for local / remote indication. Low cost, options, reliability of operation with high MTBF and ease of installation renders a greater level of customer satisfaction

DESCRIPTION

CBGI indicators accept direct current, voltage, RTD and Thermocouple inputs, and provide analog indication by raising LED strip. In addition 3½ digit 7 segment loop display is provided for precise monitoring of process value. 102 segment bar graph display provides analog indication precise of process value in 0 – 100%. 3 ½ digit LED display provides digital indication of process value in engineering unit.

CBGI indicators are available in Single channel with or without alarm options Zero and span adjustments are provided for infield adjustments of both digital and bar graph display, for field calibration of indicator whenever required.

Indicators can be supplied with retransmission output of 0 – 2V, which can be used for remote telemetry or recording purpose

CALIBRATION

Allow the instrument to stabilize for 30 minutes with power connected and the indicator situated in a draft free location.

- a. Inject a known signal of approximately 10% of span to the required channel and adjust the zero trim pot until the minimum specified reading is displayed
- b. Now, inject a signal of 90% of span and adjust the span trim pot until the maximum specified reading is displayed
- c. Repeat steps **a** and **b** for better accuracy

MOUNTING

The instrument is housed in a vertical flush panel with MS black powder coating, conforming to IP50 standard

OPTIONS

Retransmission Output (4 – 20 mA / 1 – 5 V / 0 – 2 V)

SPECIFICATIONS

INPUTS

DC Current	:	4-20 mA
DC Voltage	:	10 mV to 10 V DC
Thermocouple	:	8 types (T,E,J,K,N,R,S,B) with minimum input span of 5 mV and CJC in-built
RTD	:	Pt100 / Pt46 / Cu-53 (3 wire) with minimum input span 50 Deg. Celsius and sensing current 4 mA for upscale burnout detection & with inbuilt lead resistance compensation

OUTPUTS

Retransmission Signal	:	4 – 20 mA / 1 – 5 V / 0 – 2 V
Accuracy	:	+0.5% FS

ACCURACY

±0.5% FS (Digital)

DISPLAY

Bargraph Display	:	101 segment LED array
Digital Display	:	3 ½ digit , -1999 to 1999, Height 0.3”

RESOLUTION

Bargraph Display	:	1% FS for 101 segment bar graph
Digital Display	:	0.05 ±1 count

INPUT IMPEDANCE

Voltage Input : Greater than 200 K
4 – 20 mA DC : 100 Ohms, Compliance resistor
10 – 50 mA DC : 40 Ohms, Compliance resistor

RESPONSE TIME

200 ms, typical

SETPOINT OPTIONS

Standard : Hi, Lo
Options : HI, V HI and Lo, V Lo
Set point adjustments : Access through front panel key pad
Accuracy : $\pm 0.5\%$
Hysteresis : 1.5% fixed
Contact type : One change over contact (SPDT)
Contact rating : 3 A / 230 V AC (resistive)
Accuracy : $\pm 0.5\%$

POWER SUPPLY

230 V AC $\pm 10\%$, 50 Hz

POWER CONSUMPTION

10 VA Maximum.

CLIMATIC CONDITIONS

Operating Temperature Range: 0 – 50 Deg. Celsius
Storage Temperature Range : 0 – 70 Deg. Celsius
Humidity : 4 – 95 % RH (non – condensing)

MOUNTING

Flush Panel with MS black powder coated

DIMENSION

Bezel : 144mm X 144mm
Cutout : 138mm X 138mm

MANUFACTURED BY:

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