

## FEATURES

- ❑ Single and Dual channel
- ❑ Microcontroller based
- ❑ Compact design with 101 segment bar
- ❑ Universal input
- ❑ Bright Red LED display for excellent visibility
- ❑ Programmable range
- ❑ Configurable alarms
- ❑ Bargraph and digital display



BG101 / BG102 is a microcontroller based Bargraph Indicator designed to accommodate Dual Process Parameter monitoring. It is easy to use and extremely compact. This indicator displays the process variable on a 101 segment bar and full 4 digit digital display. It has the provision for alarm output using relays and input calibration through front keys (no internal pots to adjust). The design offers a wide range of options as sensor open protection, security, hysteresis, auto diagnosis facility and offset adjustment. These bargraph indicators are suited to applications in process control and industrial instrumentation, including Electrical Power Plants, Chemical, Water and Sewerage Processing, Oil/Gas Distribution, Metals/Minerals, Pulp/Paper, Pharmaceutical Processes, agricultural as well as many OEM applications.

## SPECIFICATIONS:

Input signal	:	Universal Input: - Field selectable from the following: <ul style="list-style-type: none"> <li>▪ J, K, T, E, B, R, S type of Thermocouple</li> <li>▪ PT100 &amp; Nickel RTD</li> <li>▪ 0/1 – 5 V DC and Other special ranges</li> <li>▪ 0/4 – 20 mA (using 250 Ω conditioning resistance)</li> </ul>
Common mode rejection	:	120 dB@ 50Hz
Normal mode rejection	:	60 dB@ 50Hz
Open sensor indication	:	Available with TC, RTD & linear inputs
Accuracy	:	+/- 0.1% of FS, +/- 1 digit
ADC Resolution	:	14 ½ bits
Power supply	:	Universal 90-260VAC / 110-250VDC, 10VA max
Display	:	<ul style="list-style-type: none"> <li>▪ Single / Dual 4 digit, 7.6 mm, 7 segment Red LED</li> <li>▪ Single / Dual 101 segment Red LED Bar</li> <li>▪ 3 no. Individual discrete LEDs</li> </ul>
Alarm Output	:	2 nos., 1 CO, 5A / 230 V AC resistive max.
Transmitter Excitation Voltage	:	24VDC +/- 1V / 30mA max per channel
Retransmission Output option	:	Isolated 4 – 20mA Programmable per channel

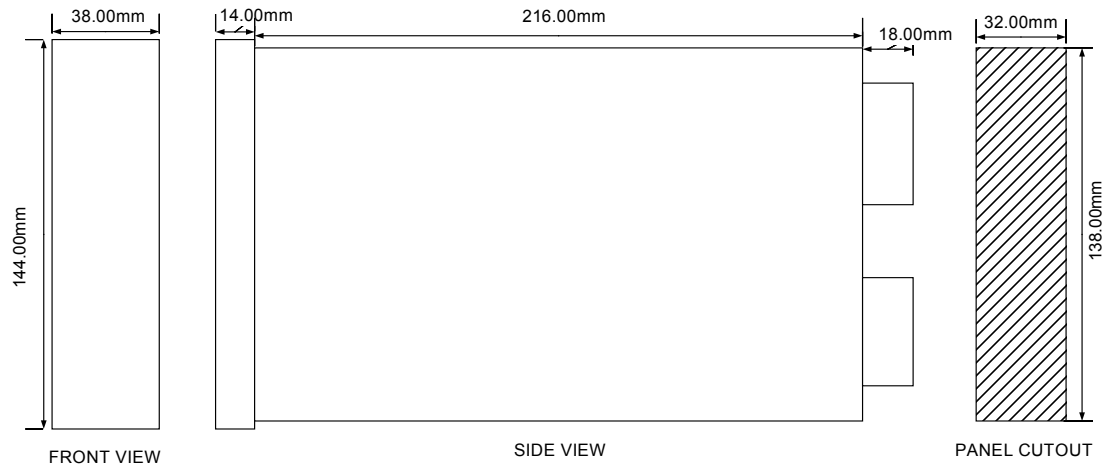
**contd. specifications:**

Environmental	:	Temperature: 0 to 55 Deg.C Humidity: Up to 95% RH (non condensing)
Enclosure	:	MS powder coated with plastic ABS bezel
IP rating	:	IP55 (Front panel)
Dimensions	:	External: 38(W) × 144(H) × 234(D) mm
Panel cutout	:	32(W) × 138(H)
Weight	:	0.7 kg (approx.)

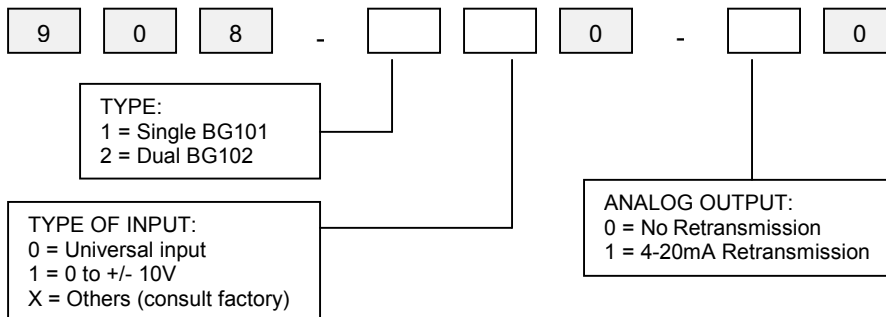
**INPUT TABLE:**

INPUTS	TYPE	RANGE
Thermocouple	J	0 to 700 Deg. C
	K	0 to 1200 Deg. C
	R	-50 to 1765 Deg. C
	S	0 to 1766 Deg. C
	T	-100 to 400 Deg. C
	E	-100 to 1000 Deg. C
	B	250 to 1820 Deg. C
	N	0 to 1800 Deg. C
RTD	PT100	0 to 200.0 Deg.C
	PT100	0 to 600 Deg.C
	Nickel	0 to 200 Deg C
mA DC	4 – 20 mA	} -1999 to +9999 Field programmable
	0 – 20 mA	
V DC	1 – 5 V	
	0 – 5 V	
Others	0 to +/- 10V	

**EXTERNAL DIMENSIONS:**



**ORDERING CODE:**



**SAMPLE CODE ORDER:**  
**908-100-00**  
 Single channel BG101,  
 Universal input, without re-transmission