

INNOVEC

CONTROLS PTY LTD

INNOVEC BGI051 POWERED BAR GRAPH INDICATOR



The **BGI051 Powered Bar Graph Indicator** is a 85 to 265VAC or 10-40VDC powered 51 element bar of light and a 4 digit numeric LED display of 10mm character height in the one package. It has a 250mm high linear bar of light LED and a 4 digit numeric display which accepts inputs of volts and milliamps. Range cards are available for PT100 resistance bulbs.

An optional 24VDC loop supply is available for the direct connection of 2 wire transmitters.

FEATURES

- Accepts all standard process signals
- Low cost - High Performance
- 85 to 240VAC 47-63 Hz supply or factory fitted 10 to 40VDC isolated supply
- High contrast 51 element LED display with a height of 250mm and a numeric display of 10mm digit height
- 24VDC loop supply
- 48x144mm panel mount enclosure with a front fascia of 91mm wide x 286mm high
- Weatherproof instrument front
- Applications include the display of flow, level and pressure
- Australian design and manufacture

The BGI051 Powered Process Indicators are advanced instruments which have been designed to accept all the standard process signals. The instrument incorporates a CMOS dual slope integrating analogue to digital converter which is designed to reject electrical interference that normally abounds in industrial environments. The front panel of the BGI051 is sealed to IP56 and the instrument includes screw terminal electrical connections.



TECHNICAL SPECIFICATIONS

Input Details

- The instrument has a bipolar differential input. Full scale ranges of 200mV, 2V, 5V, 0-10V, 2mA, 20mA, 200mA and 4-20mA are acceptable.
- CMRR greater than 86db.
- NMRR greater than 100db.

Display

- A 51 element high contrast light emitting diode (LED) bar of light of 250mm high with a wide viewing angle and a viewing distance of 5 metres and a 4 digit numeric display of 10mm digit height.

Span Range

- 10 to 51 counts adjustable for the bar of light and 0-9999 for the 4 digit numeric display. For field adjustments the zero and span potentiometers are accessible from the rear of the instrument.
- Accuracy +/- 1 element.

Environmental

- 0-70 degrees Celsius.
- 0-90% rh Non-condensing.

Sensor Excitation

- 24VDC power supply at 30mA for powering 2 wire transmitters.

Connection Details

Terminal 1: Input common (-) s	Terminal 8: not used
Terminal 2: Input mA (+)	Terminal 9: not used
Terminal 3: Input Volts (+)	Terminal 10: not used
Terminal 4: 24VDC Loop supply	Terminal 11: not used
Terminal 5: not used	Terminal 12: 85 to 265VAC or 12-40VDC active supply
Terminal 6: not used	Terminal 13: VAC neutral or 0Vdc supply
Terminal 7: not used	Terminal 14: Ground supply

Instrument Power supply

- 85 to 265VAC 47-63 Hz or factory fitted DC to DC converter isolator from 10 to 40VDC.

Transducer Power Supply

- An optional 24VDC at 30mA loop power supply is incorporated in the instrument.

Weight

- 300 grams.

Case Details

- Width: 92mm.
- Height: 286mm.
- Depth: 125mm.

Mounting Details

- Panel mounting with a panel cut out of 43mm wide by 138mm high.

Ordering Information

- Model/input/display units/power supply/options.
- Sample no. BGI051/4-20mA/0-100.0/0-51/VAC.
- All units shipped factory calibrated to 0-100.0