





BG101P/BG202P Programmable Bargraphs

(Class III-Commercial/Industrial Grade)

METEK Dixson "PRO" (PROgrammable) Series bargraphs are the preferred choice for new applications, or for replacement of switchboard meters, other common size indicators, and set point controllers. The "PRO" Series is feature-enhanced, and options are available to solve most common application problems. These models are easily configurable for maximum flexibility. Class II (seismic only) and Class I (1E) versions are also available (SH101P/SH202P and BH101P/BH202P respectively).

Features

- Brilliant red LED display for excellent visibility
- Minimum 88,000-hour MTBF
- Rugged—high resistance to vibration and shock
- · Microprocessor-based design
- Programmable configuration using a PC serial link
- Input signal ranges switch-selectable
- Auto-calibration algorithm
- Linearization of input signals
- Underrange/overrange indication
- Digital display reads to 10% over- and underrange
- Optional green or amber LEDs

Application

AMETEK Dixson bargraphs are appropriate in any application where moving pointer meters have been used in the past, and in applications where greater accuracy, readability, and reliability are desirable. Signal sensitivities span ANSI C39.1 ranges, all conventional current loops and voltage control signals. Configuration programming is accomplished using a PC serial link. The instruments are suitable for local or remote, primary or redundant system indication.

Model BG101P (single bargraph) and BG202P (dual bargraph) enclosures are form-factor compatible with the Bailey RY edgewise switchboard instrument. This simplifies retrofit into existing systems without panel modifications.

User-programmability provides maximum versatility and minimizes the need for spares. A solid-state design with no moving parts yields a highly reliable product, especially under conditions of shock, vibration, dust and moisture. Features such as linearization and min/max readings make the "PRO" Series the ideal choice for your application.



BG101P/BG202P Specifications

Note: for ISA S67.04 and RP67.04 Part II, consult factory for models and assistance.		DC INPUT PARAMETERS	
		Linearity	0.02% of span \pm 1 count*
PHYSICAL CHARACTERISTICS		Accuracy	0.04% of span \pm 1 count*
Number of segments in each bargraph channel	101	Zero stability	<0.01% per °C
Resolution	1.0%	Gain stability	<0.02% per °C
		Input impedance:	
ENCLOSURE MATERIAL	Metal	For voltage inputs	>200 k ohms
		For 4 to 20 mADC current inputs	100-ohm compliance resistor
DIGITAL DISPLAY	(–)9999 to 9999	For 10 to 50 mADC current inputs	40-ohm compliance resistor
Number of digits in each digital display	4	For all other current inputs	Consult factory
Resolution	0.01% ± 1 count*	Response time (typical)	175 ms
		Overload (signal)	200% or 250 VDC maximum
ENVIRONMENTAL CHARACTERISTICS			
Operating temperature range (MIL-E16400G, Class 4) 0 to +60° C		AC INPUT PARAMETERS (true RMS-reading)	
Storage temperature range	_40 to +85° C	Linearity	0.4% of span **
0 1 0		Accuracy	0.5% of span **
POWER REQUIREMENTS 115/230 VAC at 50, 60, 400 Hz		Zero stability	<0.04% per °C
Line regulation	±10%	Gain stability	<0.04% per °C
Power consumption (typical, depends upon options) 3.5 VA		Input impedance for voltage inputs	>200 k ohms
		Response time (typical)	325 ms
SENSITIVITY RANGES (Reference ANSI C39.1 Std. Sensitivities)		Overload (signal)	200% or 250 VAC maximum
STANDARD FULL SCALE INPUTS FROM ZERO	,		
(DIP-switch selectable):		LINEARIZATION	
DC currents 500 µA to 50 mA		8 th -order polynomial (nine terms), Refer to "PRO" Series Interface Kit.	
DC voltages	1 to 250 V		
3 • •		* 1 count is defined as a \pm unit value change of the right-most digit.	
		** Except for first 5% of span.	

BG101P/BG202P Dimensions



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