°C BG-252TC **V**

0

105.67

60

ERCENT

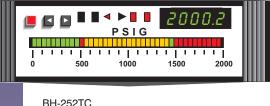
▲ ▼

BG TC Series TriColor BarGraphs ™

The Weschler Instruments BG "TC", TriColor BarGraphs provide the quickest way to spot problems in your process control panels with bright changing colors. Quick identification of trouble conditions can help prevent equipment damage or production loss, thus reducing down time and maintenance costs, and improving operational safety. Each 40 segment LED (Light Emitting Diode) of the BG TC family has the ability to illuminate as Red (Danger), Yellow (Caution), or Green (Safe condition). The bar color identification can be easily changed by the user, from the front pushbuttons or through a tamper safe mode. The fully programmable Weschler BG TC BarGraph™ fits

> the widest range of inputs and retrofits most edgewise switchboard and panel meters. Weschler's instruments satisfy the high quality standards set forth by the utility, OEM, and process control

industries.



FEATURES

Large, high resolution 40 segment LED bar array

5 digit display with resolution to 0.01%

Field programmable functions

Zero and full scale point location Setpoint type (Hi or Low) Hysteresis & latching Setpoint time delay 16 step dimming Digital display for engineering units Enable/disable front buttons I.D. selection for communication Bar form Peak / Valley enable Color zones

Over-range/Under-range flashing

Form-C relay outputs

Lamp test

Normally Open 5A, resistive @ 250V AC 5A, resistive @ 28V DC Normally Closed 3A, resistive @ 250V AC

2A, resistive @ 28V DC

Peak and Valley hold

Trend indication for signal direction

Communication

RS232/485, SCADA, DCS

Analog retransmit

4-20, 0-1mA DC 1-5, 0-1, 0-5V DC

Retrofit sizes for:

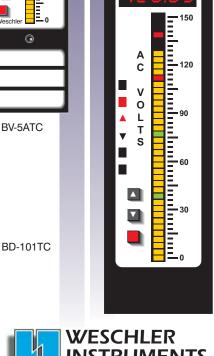
GE/Yokogawa 180, Bailey draft gauges, Crompton 128, Dixson SA/BB 101 (all models), Dixson BJ101, K051 Hays Republic 216, 3600/V5A, Foxboro 65PP, Sigma/International Instruments 1151

Versatile selection of inputs

DC Up to 5A & 250V AC Up to 5A & 250V Thermocouple J, K, T 10Ω Cu or 100Ω Pt RTD Serial ASCII

Line or mag pickup Frequency

Process Control V, mA



DIVISION OF HUGHES CORPORATION 16900 FOLTZ PARKWAY - CLEVELAND, OH 44149 Phone: (440) 238-2550 - Fax: (440) 238-0660 www.weschler.com e-mail: sales@weschler.com

SPECIFICATIONS

Bar Display

40 segment LED

2.5% full scale resolution

Height

BG252, BH252, BV5A 4" (10.12mm) BD101 10" (25.4mm)

Digital Display

5 digit LED -9999 to 99999
Resolution 0.01% full scale
Linearity ±1 count

Heiaht

BG252, BH252, BV5A 0.3" (7.62mm) BD101 0.56" (14.2mm)

Response Time

DC <600msec full scale AC <800msec full scale

Temperature

Operation 0° to 50° C, <95% RH

(Non-condensing)

Storage -40° to 85°C

Input Isolation

AC Transformer isolated

(>50mA, 1V) Differential

DC D

Setpoints

Up to 4 SPDT relays with form C

contacts available

Hysteresis 0.00-10.00% FS or latching

Time delay 0-10 sec.

Sensor Power

24V DC excitation power @ 90mA

Retransmit Signals

4-20mA DC 0-1mA DC 1-5V DC 0-5V DC

Communication

RS232

RS485 (2-wire)

Power

120/240V AC ±10%

50/60/400Hz (13VA)

12V DC ±10% (8W) 24V DC ±10% (8W) 28V DC ±10% (8W) 48V DC ±10% (8W) 250V DC ±10% (8W)

110-250V DC (8W)/85-264V AC,

50-440 Hz (13VA)

Input Impedance

2Mohm @ >4V DC 30kohm @ 120V AC P.T. 0.1ohm @ 5A AC C.T. 250ohm @ 4-20mA DC

1000hm @ 4-20mA DC

Input Overload Ratings

200%, not to exceed 10A 200%, not to exceed 300V

Input Sensitivities [ANSI C39.1]

DC:

Current 50 microamp - 5A Voltage 50mV - 250V Accuracy 0.04% of full scale

± 1 count

AC RMS:

Current 1mA - 5A Voltage 50mV - 250V

Accuracy 0.1% of full scale ± 1 count

Temperature:

Thermocouple °C °F
Type J -210 to 795 -346 to 1463
Type K -270 to 851 -454 to 1563
Type T -270 to 400 -454 to 752

Accuracy 0.1% of full scale ± 1 count

Linearity 50 point, 0.1%

RTD $^{\circ}$ C $^{\circ}$ F 100Ω Pt -260 to 700 -436 to 1292

Alpha 0.00385 & °C standard Other Alpha ratings available

 10Ω Cu -100 to 260 -148 to 500

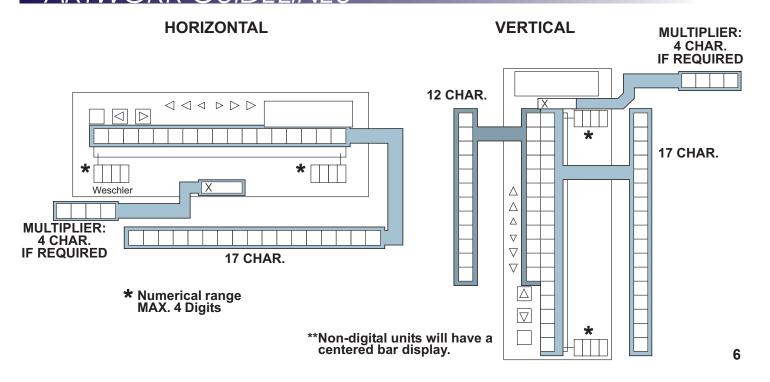
Accuracy 0.2% of full scale \pm 1 count

Frequency:

50Hz to 20kHz at 5 to 250V p-p Accuracy 0.1% of full scale ± 1 count

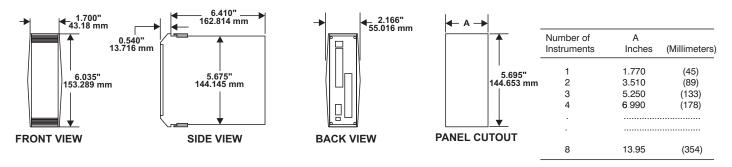
Line Frequency (55 to 65 Hz):
Accuracy 0.01% of full scale
± 1 count

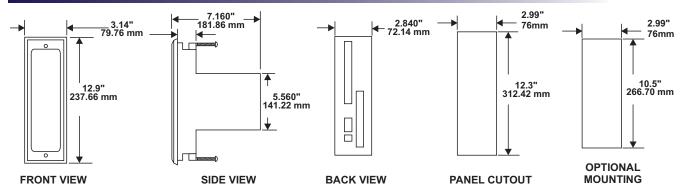
ARTWORK GUIDELINES

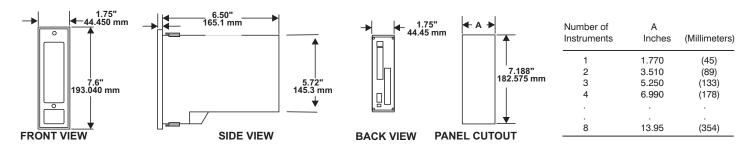


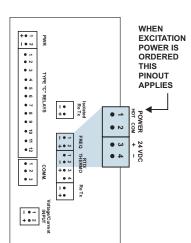
	SAMPLE PART NUMBER (SEE BOTTOM OF PAGE FOR EXAMPLE)															
	2	В	Υ	4	Р	Α	Α	М	1	F	Α	Р	Т	Х	Т	
PART NUMBER																
TYPE: 2 = BG252 6" Vertical BarGraph 5 = BH252 6" Horizontal BarGraph A = BV5A 7.5" Vertical BarGraph K = BD101 10" Vertical BarGraph	า														l	SAR COLOR: = TriColor
BAR ZERO POINT: B = Zero at Bottom H = Zero at 50% mid scale F = Zero at F.S. S = Special /off scale zero		I													- = \ = \ =	Conformal Coating Terminal Strip Connector Custom Artwork None Special
DIGITAL DISPLAY: R = Red Y = Yellow G = Green															=	Trend Indicator NA Peak/Valley Hold
S = Special																NA NA
SETPOINT RELAYS: 4 = 4 relays X = No relays S = Special														A C	=	
SETPOINT HYSTERESIS. P = Programmable 0-10% or latchi S = Special	ing											C D F	; = ; = ; = ; = ; =	0-1 4-2 0-1 Ex	SV DO IV DO OmA ImA I citation	DC, 700 Ohm max.
INPUT TYPE: A = DC Volts B = DC Amps P = 4-20mA DC (input level AK) N = 1-5V DC (input level AV) M = 10-50mA DC (input level BA) C = AC Volts RMS (Barrier terminal strip connections included) D = AC Amps RMS (Barrier terminal strip connections included) F = Line Frequency								POWER: 1 = 120V AC, 50/60 Hz 2 = 240V AC, 50/60 Hz 4 = 12V DC 6 = 250V DC 7 = 24V DC 8 = 28V DC 9 = 48V DC U = 110-250V DC / 85-264V AC, 50-440 Hz								
Q = MAG Pickup Frequency J,K,T= Thermocouple R = RTD: Specify 3 or 4 wire & alpha								INPUT LEVEL: See input Level Matrix Guide								
S = Special U = Serial ASCII (requires com. type A or C in Communication options)								EXAMPLE: 2 B Y 4 P A A M 1 F A P T X T (2) BG-252, (B) zero at bottom, (Y) Yellow, (4) Four relays, (P) Programmable setpoint hysteresis, (A) DC volts input, (AM) full scale is 0.05 volts, (1)120 VAC 50/60 Hz power, (F) 4-20 mA DC isolated retransmit, (A) RS232 communication, (P) peak/valley hold, (T) trend indicator, (X) No option, (T) TriColor								

BH-252TC









VOLTAGE / CURRENT

(1) Return Side (-) (2) Hot Side (+)

RTD

(1) - Source

(2) - Sense

(3) + Sense

(4) + Source

FREQUENCY/MAGNETIC PICKUP (1) Lead 1 (-) (2) Lead 2 (+)

THERMOCOUPLE

Provided w / flying lead and plug.

AC LINE FREQUENCY

(1) Hot Side (+) (2) Return Side (-) AC Inputs have 6/32" barrier lug connections.

POWER

(1) Hot Side (+) (2) Return Side (-)

COMMUNICATIONS

(1) Transmit (2) Common (3) Receive

EXCITATION POWER

- (1) VAC (hot side)
- (2) VAC (return)
- (3) 24 VDC + (4) 24 VDC -

RELAY CONTACTS* (1) AL 1 N.O. (2) AL 1 C. (4) AL 2 N.O. (3) AL 1 N.C. (5) AL 2 C. (6) AL 2 N.C. (7) AL 3 N.O. (8) AL 3 C. (9) AL 3 N.C. (10) AL 4 N.O. (12) AL 4 N.C. (11) AL 4 C.

N.O. = Normally Open

N.C.= Normally Closed

C.= Common

2/15/19

