

# TriColor BarGraph Gate Position Indicator

## FEATURES

- Simultaneous Position & Limit Display
- Bright 50 Segment TriColor Bar
- Volt or mA Inputs
- Optional Alarm Relay Outputs
- Rugged Metal Case

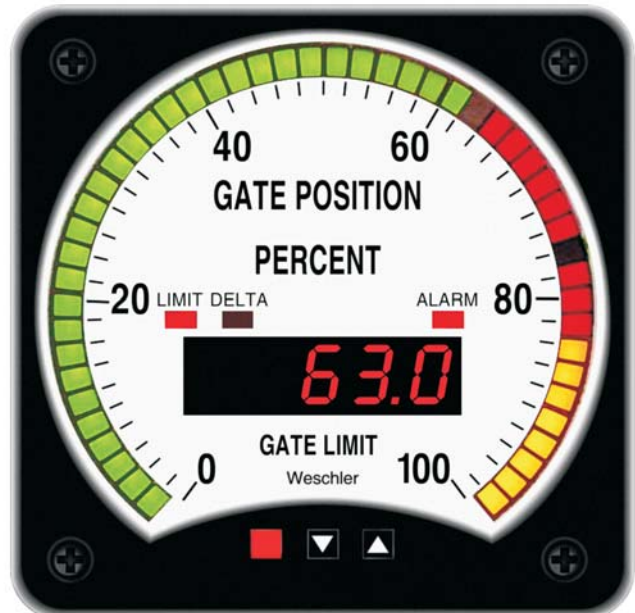


BG241 GPI with optional Trend & Alarm functions. Green bar indicates gate position. Yellow bar indicates gate limit. Single illuminated segment shows the adjustable alarm level.

The Weschler TriColor BarGraph *Gate Position Indicator* (GPI) provides a rapid visual display of gate position and gate limit. The GPI also gives a precise digital readout of either signal or their difference. Bar colors for position and limit are user selectable (red, green or yellow). Overlap defaults to the third color. Two relay outputs are available. One is tied to the gate limit value. The second is user adjustable and indicated by front panel annunciators. Optional trend LEDs show the direction of gate movement.

A rugged metal case is standard on the Weschler GPI. An optional splash-proof bezel provides additional environmental protection. Analog retransmit of the gate position is available for connection to SCADA systems. Units can be ordered with custom dial scales and legends.

<b>S P E C I F I C A T I O N S</b>	<b>Bar Display</b>	50 segment LED, 2% resolution
	BG-241	285°
	BG-261/281	270°
	<b>Digital Display</b>	5 digit -9999 to 20000
	Resolution	0.01% of full scale
	BG-241	0.4" high (10.16mm)
	BG-261/281	0.8" high (20.32mm)
	<b>Differential DC Input</b>	Accuracy 0.3% of full scale
	Input Overload	200%
	Impedance	2MΩ for DCV 250Ω for 4-20mA
Response Time	<600ms, zero to full scale	
<b>Temperature</b>	Operation 0° to 50°C, <95% RH (non-condensing)	
Storage	-40° to 85°C	
<b>Setpoints</b>	2 SPDT (form C) relays. NO contact 5A resistive @250V AC or 28V DC. NC contact 3A resistive @250V AC or 28V DC. Hysteresis 0.00-10.00% FS or latching. Time Delay 0-10 sec.	
<b>Power</b>	120, 240V AC (13VA) 12, 24, 28, 48, 125, 250V DC (8W)	



Bar changes color when gate position exceeds limit. UP button toggles digital display between position, limit & delta. Example of a custom dial shown here.

# ORDERING GUIDE

PART NUMBER

B

X

X

T

T = TriColor bar

**TYPE:**

- 4 = BG241 4½" Square BarGraph
- 6 = BG261 8½" Square BarGraph
- 8 = BG281 8" Circular BarGraph

**BAR ZERO POINT:**

- B = Zero at Bottom

**DIGITAL DISPLAY:**

- R = Red
- Y = Yellow
- G = Green
- S = Special

**SETPOINT RELAYS:**

- 2 = 2 Relays
- X = No relays
- S = Special order

**SETPOINT HYSTERESIS:**

- P = Programmable
- S = Special

**INPUT (both channels):**

- GP1 = 0-10V DC
- GP2 = 4-20mA DC
- GP3 = 0-1mA DC

**MISCELLANEOUS OPTIONS:**

- A = Analog Backplate
- K = Conformal Coating
- T = Terminal Strip Connector
- A = Custom Artwork
- Y = Spraytight Face

- T = Trend Indicators
- X = No Trend Indicators

X = NA

X = NA

**RETRANSMIT:**

- C = 1-5V DC
- D = 0-1V DC
- F = 4-20mA DC
- G = 0-1mA
- X = None

**POWER:**

- 1 = 120V AC ±15% 50/60Hz
- 2 = 240V AC ±15% 50/60Hz
- 4 = 12V DC ±10% \*
- 6 = 250VDC ±10%
- 7 = 24V DC ±10%
- 8 = 28V DC ±10%
- 9 = 48V DC ±10%
- U = 110-250V DC / 85-264V AC, 50-440Hz

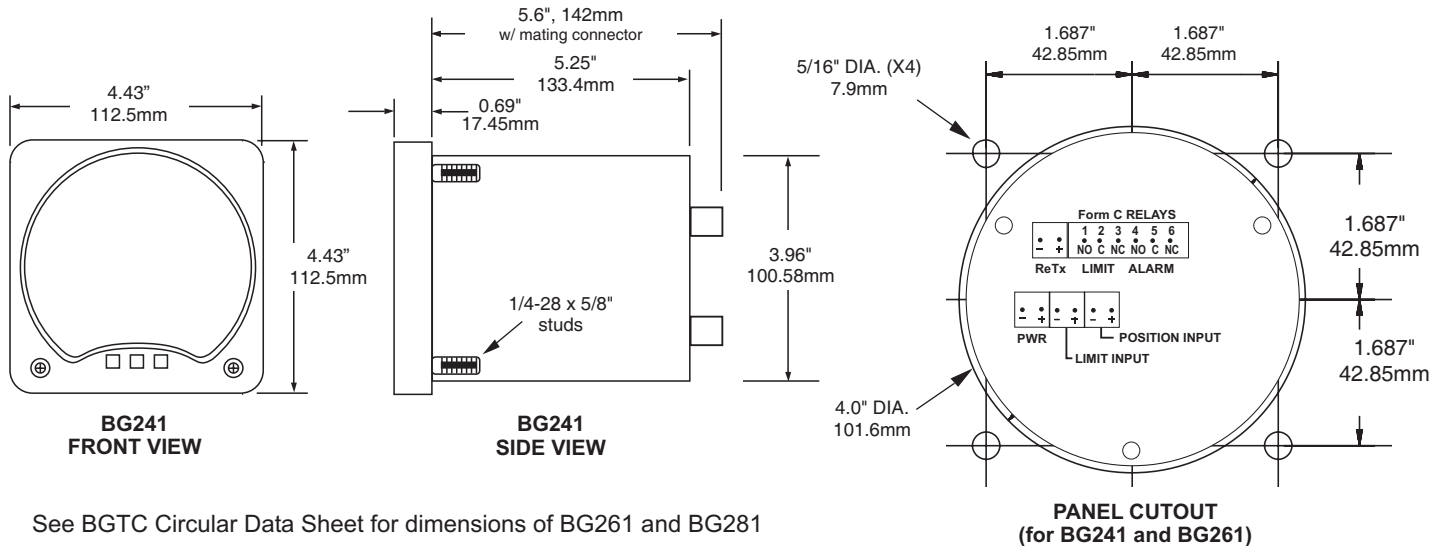
\*Max ambient 45°C

EXAMPLE: 

4	B	Y	2	P	G	P	1	1	F	X	X	T	T	T
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(4) BG-241, (B) zero at bottom, (Y) Yellow, (2) 2 relays, (P) Programmable hysteresis, (GP1) 0-10V DC input, (1) 120V AC 50/60Hz power, (F) 4-20 mADC isolated retransmit, (X), (X), (T) trend indication, (T) terminal strip connector, (T) TriColor

## DIMENSIONS & CONNECTIONS



See BGTC Circular Data Sheet for dimensions of BG261 and BG281

6/1/10