

Triplett Universal Bargraph Series

**Now RS-232
Compatible!!!**



Vertical, Horizontal, Single or Dual... You Name It, Triplett's Got It.

The Triplett Universal Bargraph Series features front panel programming for scaling of the bargraph, optional setpoints and setting the hysteresis. The optional relay board provides four, 5A form C (SPDT) relays per channel. A lock-out feature disables the programming buttons for security or safety purposes. Three modular input boards allow easy input scaling for AC and DC voltages from 100mV to 300V, AC and DC current from 100 μ A to 5A and J, K, T and E type Thermocouples.

The Universal Bargraph Series is now available with an optional RS-232 Serial Interface Board which allows for full control and data acquisition from a remote host computer.

The Universal Bargraph Series is available in either single or dual channels with red or green displays. The bargraph is interchangeable with most 6" edge-wise meters. The single channel unit can be mounted either vertically or horizontally.

3 Year Warranty

The Universal Bargraph Series comes with a 3 Year Warranty (1 Year on Calibration). Our obligation under this warranty is limited to repairing, replacing or making a refund on any unit which proves to be defective within three years of the date of the original purchase.

Special Features

- ▲ Interchangeable with most 6" edgewise meters
- ▲ Full Three Year Warranty (One Year Calibration)
- ▲ Easily configured for process inputs (4-20mA, 1-5VDC)
- ▲ Thermocouple Input J, K, T, E
- ▲ Lock-out feature to disable programming buttons
- ▲ Range Changes - by Jumper Pins or Pot Adjustments
- ▲ Relay Option (Setpoints) may be added at any time
- ▲ Modular Construction for easy Input, Output and Digital Display Change.
- ▲ Bar and Digital Display is available in Red or Green
- ▲ Failsafe Relays (Setpoints)
- ▲ Full Four Digit LED Display (Optional) Red or Green
- ▲ Highly visible 101 segment LED Bar
- ▲ Scale plate protected by clear overlay
- ▲ Annunciators
 - ▲ Over-Range
 - ▲ High-High Relay
 - ▲ High Relay
 - ▲ Low Relay
 - ▲ Low-Low Relay
 - ▲ Under-Range
- ▲ Front Panel Programmable (Non-volatile Ram)
- ▲ Optional RS-232 Serial Communications Interface

Triplett Universal Bargraph Series

Main Module Specifications

▲ DISPLAYS

Bar	101 segment LED (Red or Green), 4" Bar length
Annunciators	Overrange, Underrange and 4 Setpoints
Digital	Four Digit with negative sign
	Display for Single Channel units: .30" high
	Display for Dual Channel units: .11" high

▲ A/D CONVERTER

Type	Integrating dual slope with auto zero
Reading Rate	7.7 times per second
Measurement Range	±0.9999 Volts
Resolution	0.01%
Response Time	260 ms max

▲ NON-VOLATILE RAM

Data Retention	10 years typical
Endurance	40,000 write cycles typical

▲ POWER

AC	115Vac @ 50mA or 230Vac @ 25mA (50-400Hz) (Isolation 1000V peak AC & DC)
DC	5Vdc ±5% @ 400mA (non-isolated)
Connector	Two screw terminals for 14-30 AWG wire

▲ ENVIRONMENTAL

Operating Temperature	0° to 60° C
Storage Temperature	-40° to 85° C
Relative Humidity	to 85% @ 35° C non-condensing

▲ MECHANICAL

Case Size	5.68" H x 1.76" W x 7.0" D
Front Bezel Size	6.0" H x 1.95" W x .20" D
Weight	Single 1 1/3 lbs, Dual 2 1/3 lbs
Panel Cutout	5.70" H x 1.78" W
Panel Mounting Thickness25" max
Case Material	Durable Thermoplastic

ISE, Inc.

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Cleveland, OH 44133 USA

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<http://iseinc.com>

Triplett Universal Bargraph Series

Input Modules

▲ DC INPUT OPTIONS

DC Voltage Ranges	99.99mV, 999.9mV, 9.999V, 99.99V, 300V max
DC Current Ranges	99.99 μ A, 999.9 μ A, 9.999mA, 99.99mA, 5.000A
Compliance Voltage (Current Ranges)	1V Standard, 100mV Optional
Attenuator (Variable)	10:1 (25 turn pot)
Input Impedance (Current Ranges)	>900 K ohm shunted by <20 pF
Voltage Accuracy	$\pm 0.02\%$ Full Scale ± 1 count
Current Accuracy	$\pm 0.05\%$ Full Scale ± 1 count
Tempco	200 ppm/ $^{\circ}$ C
CMV to analog gnd	± 1 V peak DC to 60 Hz
CMV to AC power gnd	± 500 V peak DC to 60 Hz
CMRR	80 dB typical with 1 K unbalance
NMR	60 dB typical at 60 Hz
Overload Protection	200% F. S.
Analog Offset (Variable)	± 1 V max. (25 turn pot)
Analog Offset Tempco	70 ppm/ $^{\circ}$ C
Optional DC Voltage Range	99.99mV min. to 300 Vdc max
Optional DC Current Ranges	99.99 μ A min. to 5.000 A max
Standard Suppressed Ranges	4-20mA, 1-5Vdc

▲ AC INPUT OPTIONS

Detector	Full wave average responding rms scaled
AC Voltage Ranges	99.99mV, 999.9mV, 9.999V, 99.99V, 300V max
AC Current Ranges	99.99 μ A, 9.999mA, 99.99mA, 999.9mA, 5.000 A
Compliance Voltage (Current Ranges)	100mV Standard, 1 V Optional
Attenuator (Variable)	10:1 (25 turn pot)
Input Impedance (Voltage Ranges)	>900K ohm shunted by <20 pF
Accuracy	$\pm 0.1\%$ Full Scale ± 2 counts
Tempco	300 ppm ± 0.1 count/ $^{\circ}$ C
Analog Offset (Variable)	± 1 V max. (25 turn pot)
Analog Offset Tempco	70 ppm/ $^{\circ}$ C
Frequency Response	40 to 1K Hz
Overload Protection	200% F.S.
Optional AC Voltage Ranges	99.99mV min. to 300Vac max
Optional AC Current Ranges	99.99 μ A min. to 5 Amp AC max

▲ THERMOCOUPLE INPUT OPTIONS

Measurement Range: Depending on thermocouple type

Type	Range	Type	Range
JC	-194.4 to +750	TC	-250 to +388.8
JF	-318 to +1382 (999.9 @ 0.1 res.)	TF	-418 to +732
KC	-250 to +1361 (999.9 @ 0.1 res.)	EC	-250 to +1000 (999.9 @ 0.1 res.)
KF	-418 to +2482 (999.9 @ 0.1 res.)	EF	-418 to +1832 (999.9 @ 0.1 res.)

Open Thermocouple Indication: Selectable – Overrange or Underrange

Linearization Method: Multi-segment linear interpolation based on N.I.S.T. Monograph 125

Accuracy: (Worst case, over operating range, after 20 minute warm-up)

Conversion: $\pm 0.06\%$ rdg ± 3 LSD

Cold Junction Tempco: ± 0.07 Degrees/Degree internal electronic ice point, or can be configured to use external reference junction.

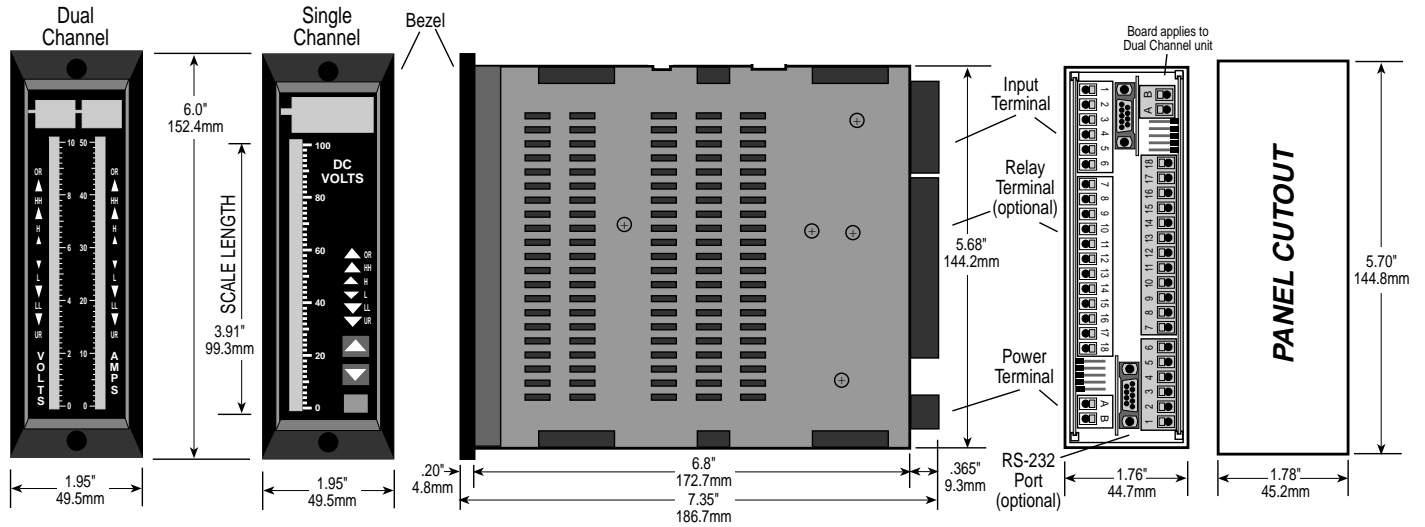
Typical Performance: (at 25 $^{\circ}$ C) $\pm 0.03\%$ rdg. ± 2 LSD

Output Modules

▲ SETPOINT OUTPUT OPTIONS

Four Setpoints	Low-Low, Low, High, and High-High
Contacts	Form C (SPDT) 5A @ 30 VDC or 230 VAC
Hysteresis	Selectable - 1% Fixed/Programmable
Bar Display of Setpoints	Selectable - On/Off
Connector	12 Terminal screw 300V, 15A rating, wire size #14 - 30 AWG

Universal Bargraph Series Dimensions & Panel Cutouts

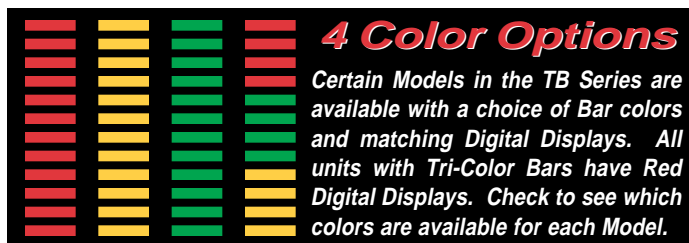


TRIPLETT TB Series



Now, the TB Series has a wider variety of shapes, sizes and styles to choose from. These versatile bargraphs will brighten up your panels with clear, crisp displays in easy-to-mount cases. These microprocessor-based units are attractive, rugged and extremely reliable.

Many models in the TB Series line offer optional relays, digital displays and a choice of LED bar and display colors including Tri-Color bars. Check model specifications for applicable options.



Standard Features

- ▲ Variety of Shapes and Sizes
- ▲ Non-Volatile Memory
- ▲ Protective Acrylic Lens
- ▲ Low Power Consumption
- ▲ White on Black Scales
- ▲ 88,000 Hour Life Expectancy
- ▲ Shock & Vibration Resistant
- ▲ Screw Terminal Connections (TB-52, Edge Card)
- ▲ Front Panel Programmable (Certain Models)
- ▲ End or Zero Center (Certain Models)
- ▲ Vertical Mounting
- ▲ Two Year Warranty

Optional Features

- ▲ Horizontal Mounting (Certain Models)
- ▲ Black on White Scales
- ▲ Customized Scales and End Caps

<http://iseinc.com>

TRIPLETT TB Series

TB-52 Compact LED Bargraph Indicator

This 52 segment bargraph is the perfect indicator when size is a factor. The bright LED is only available in red and may be mounted either vertically or horizontally.

POWER SUPPLY

5 VDC (Std) 0.5 W
24 VDC 1 W

INPUT RANGES & IMPEDANCE

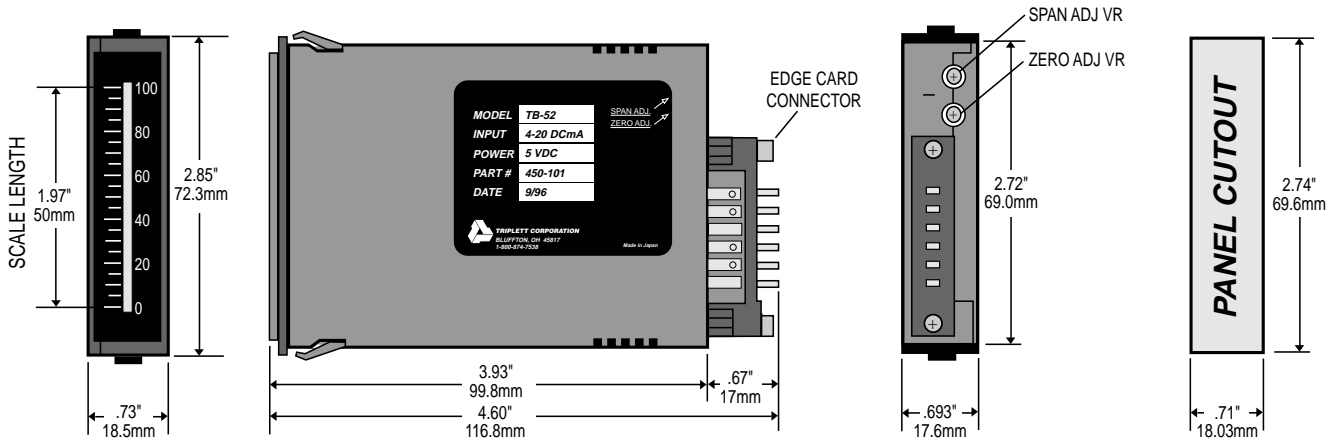
0 - 1 mA DC 100 ohms
4 - 20 mA DC 5.1 ohms
1 - 5 V DC 160 K ohms
0 - 10 V DC 160 K ohms

DISPLAY Single, 52 Segment LED Bar
CASE DIMENSIONS 0.73" W x 2.85" H x 4.60" D
PANEL CUTOUT 0.71" x 2.74"
WEIGHT 2.82 oz.
SCALE LENGTH 1.97"
AVAILABLE COLORS Red
ACCURACY ± 2%, 2 Segments
OPERATING TEMPERATURE -5 to +60° C
STORAGE TEMPERATURE -40 to +70° C
RESPONSE TIME 500ms
SAMPLING RATE 3.3/sec
DIELECTRIC WITHSTAND 2 kV RMS for 1 min between case and circuit

When a simple measurement is required in a compact area, the TB-52 is the answer. It's bargraph indication at its smallest.



Dimensions & Panel Cutouts



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TRIPLITT TB Series

TBD-52

1/8 DIN Digital Panel Meter with LED Bargraph, Tri-Color Digital Display and Optional Relays

This unique, front panel programmable DPM contains a 52 segment bargraph (TB-52) and a Tri-Color digital display when purchased w/ relays. The digits change from amber to green to red when triggered by the custom set relays. This unit will also display Peak or Valley.

DISPLAY	Single, 52 Segment LED Bar
DIGITAL DISPLAY (Optional)	-1999 to 9999
CASE DIMENSIONS	3.60" W x 1.99" H x 5.10" D
PANEL CUTOUT	1/8 DIN, 3.62" x 1.77"
WEIGHT	14.2 oz.
SCALE LENGTH	1.97"
AVAILABLE COLORS	Red Bar, Tri-Color Digital Display
ACCURACY	± 2%, 2 Segments
OPERATING TEMPERATURE	-5 to +60° C
STORAGE TEMPERATURE	-40 to +70° C
RESPONSE TIME	500ms
SAMPLING RATE	3.3/sec
DIELECTRIC WITHSTAND	2 kV RMS for 1 min between case and circuit

POWER SUPPLY Indicator Only

5 VDC	1W
110 VAC (Std)	3 VA
24 VDC	2 W
220 VAC	3 VA

With 2 or 4 Relays

5 VDC	2 W
110 VAC (Std)	5 VA
24 VDC	4 W
220 VAC	5 VA

INPUT RANGES & IMPEDANCE

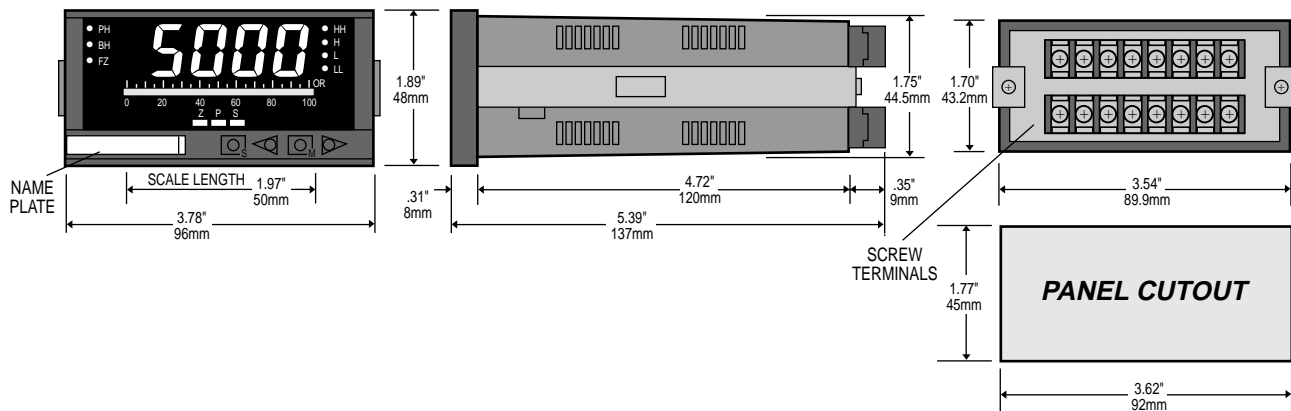
0 - 1 mA DC	100 ohms
4 - 20 mA DC	5.1 ohms
1 - 5 V DC	160 K ohms
0 - 10 V DC	160 K ohms



The TBD-52 is actually a DPM with a TB-52 mounted horizontally. The large, Tri-Color digital display is easy to read from a long distance away.



Dimensions & Panel Cutouts



TRIPLETT TB Series

TB-101

Single LED Bargraph
with optional Relays

TBD-101

Single LED Bargraph with
Digital Display and optional Relays

The TB-101 is available as an indicator only or with 2 or 4 front panel programmable Relays. The 101 segment LED bars are available in Red, Amber, Green or Tri-Color and can be mounted either vertically or horizontally.

The TBD-101 has a 4 digit display and is available as an indicator only or with 2 or 4 front panel programmable Relays. The 101 segment LED bar is available in Red, Amber, Green or Tri-Color with matching 4 digit display. (Tri-Color units have a Red digital display) Vertical mount only. See chart on page 30 for programming features.

DISPLAY	Single, 101 Segment LED Bar
DIGITAL DISPLAY (Optional)	-1999 to 9999
RELAYS (Optional)	2 or 4
CASE DIMENSIONS	1.42" W x 5.65" H x 6.25" D
PANEL CUTOUT	1.40" x 5.49"
WEIGHT	Approx. 17 oz.
SCALE LENGTH	3.94"
BAR COLORS	Red, Amber, Green, Tri-Color
DIGITAL DISPLAY COLORS	Red, Amber, Green
ACCURACY	±1%, 1 Segment; ±0.1%, 1 Digit
OPERATING TEMPERATURE	-5 to +60° C
w/ Digital Display ...	0 to +45° C
STORAGE TEMPERATURE	-40 to +70° C
RESPONSE TIME	500 ms
SAMPLING PERIOD	3.3/sec
INPUT ADJUSTMENT	Span: 10% of max. reading Zero: 10% of max. reading
RELAY RATING	125V - 0.5A AC (Resistive)
DIELECTRIC WITHSTAND	1.5 kV RMS for 1 min between case and circuit 1.0 kV RMS isolation for 1 min between relays

POWER SUPPLY Indicator Only

5 VDC	1W
110 VAC (Std)	3 VA
24 VDC	2 W
220 VAC	3 VA

With 2 or 4 Relays

5 VDC	2 W
110 VAC (Std)	5 VA
24 VDC	4 W
220 VAC	5 VA

With Digital Display (TBD-101)

5 VDC	2 W
110 VAC (Std)	3.5 VA
24 VDC	4 W
220 VAC	5 VA

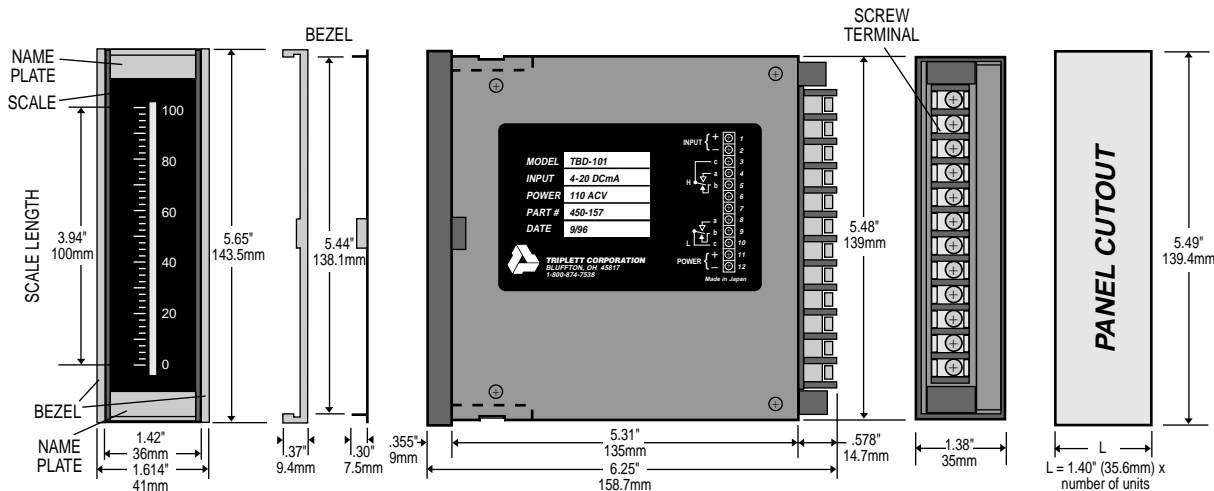
INPUT RANGES & IMPEDANCE

0 - 1 mA DC	200 ohms
4 - 20 mA DC	10 ohms
1 - 5 V DC	250 K ohms
0 - 10 V DC	250 K ohms

The 101's are available in a wide variety of configurations ranging from a simple bar indicator to a programmable controller with 4 relays and a Tri-Color bar.



Dimensions & Panel Cutouts



TRIPLETT TB Series

TBSD-101

Square LED Bargraph with Circular Bar, Digital Display and optional Relays

This square bargraph features a large, 101 segment, circular bar and 4 Digit Display. It is available as an indicator only or with 1 or 2 Relays. The TBSD-101 is front panel programmable including setpoint levels, zero scale, full scale, decimal point and display brightness.

POWER SUPPLY

5 VDC	2 W
110 VAC (Std)	5 VA
24 VDC	5 W
220 VAC	5 VA

INPUT RANGES & IMPEDANCE

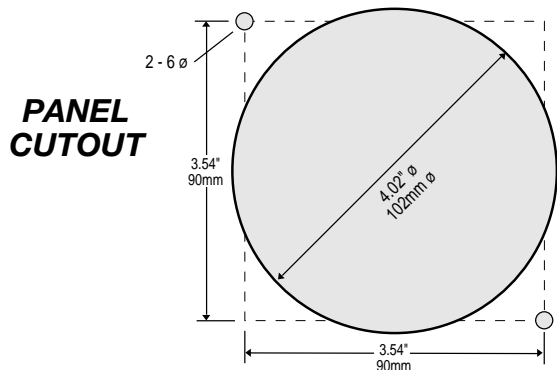
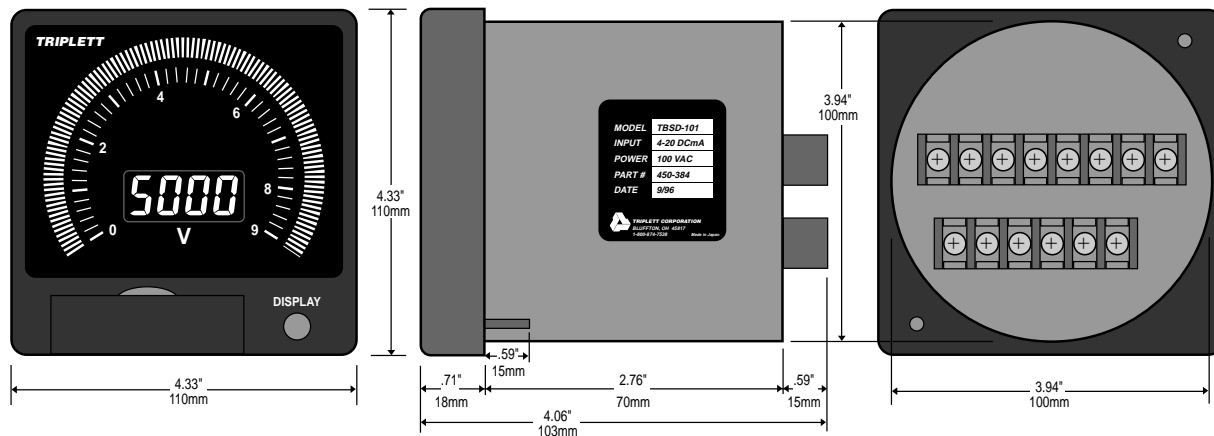
0 - 1 mA DC	200 ohms
4 - 20 mA DC	10 ohms
1 - 5 V DC	1M ohms
0 - 10 V DC	1M ohms

DISPLAY	Circular, 101 Segment LED Bar
DIGITAL DISPLAY	4 Digit, 0 to 9999
CASE DIMENSIONS	110mm W x 110mm H x 103mm D
PANEL CUTOUT	90mm x 90mm
WEIGHT	500 g
BAR COLORS	Green
DIGITAL DISPLAY COLORS	Red
ACCURACY	±1%, 1 Segment; ±0.5%, 1 Dig.
OPERATING TEMPERATURE	0 to +45° C
STORAGE TEMPERATURE	-40 to +70° C
RESPONSE TIME	500 ms
SAMPLING PERIOD	3.3/sec
INPUT ADJUSTMENT	Span: 10% of max. reading Zero: 10% of max. reading
RELAY RATING	125V - 0.5A AC (Resistive)
DIELECTRIC WITHSTAND	AC 2000V for 1 minute case to circuits
INSULATION RESISTANCE	DC 500V, 10M-Ohms between circuits and case



The TBSD-101 Bargraph has a hinged door to protect the programming buttons from accidental contact. With the Demand Meter functions, the TBSD-101 has Min / Max, as well as, constant reading. 1 or 2 Relays are also available as options.

Dimensions & Panel Cutouts



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TRIPLETT TB Series

TBS-41

Square, Compact LED Bargraph Indicator with Arched Bar

TBSD-41

Square LED Bargraph Indicator with Arched Bar and Digital Display

The TBS-41 is a simple indicator with a 41 segment, arched LED bar. The TBSD-41 has a Red 4 digit display along with the LED bar, which is available in Red or Green.

DISPLAY	Arched, 41 Segment LED Bar
DIGITAL DISPLAY (TBSD-41)	4 Digit, 0 to 1999
CASE DIMENSIONS	72mm W x 72mm H x 115.5mm D
PANEL CUTOUT	68mm x 68mm
WEIGHT	400 g
BAR COLORS	Red, Green (Standard)
DIGITAL DISPLAY COLORS	Red
ACCURACY	±2.5%, 1 Segment; ±0.5%, 1 Digit
OPERATING TEMP.	TBS-41 -5 to +60° C
	TBSD-41 0 to +45° C
STORAGE TEMPERATURE	-40 to +70° C
RESPONSE TIME	500 ms
SAMPLING PERIOD	3.3/sec
INPUT ADJUSTMENT	Span: 10% of max. reading Zero: 10% of max. reading
RELAY RATING	125V - 0.5A AC (Resistive)
DIELECTRIC WITHSTAND	AC 2000V for 1 minute case to circuits
INSULATION RESISTANCE	DC 500V, 10M-Ohms between circuits and case

POWER SUPPLY Indicator Only (TBS-41)

110 VAC (Std)	3 VA
220 VAC	3 VA

With Digital Display (TBSD-41)

110 VAC (Std)	3.5 VA
220 VAC	5 VA

INPUT RANGES & IMPEDANCE

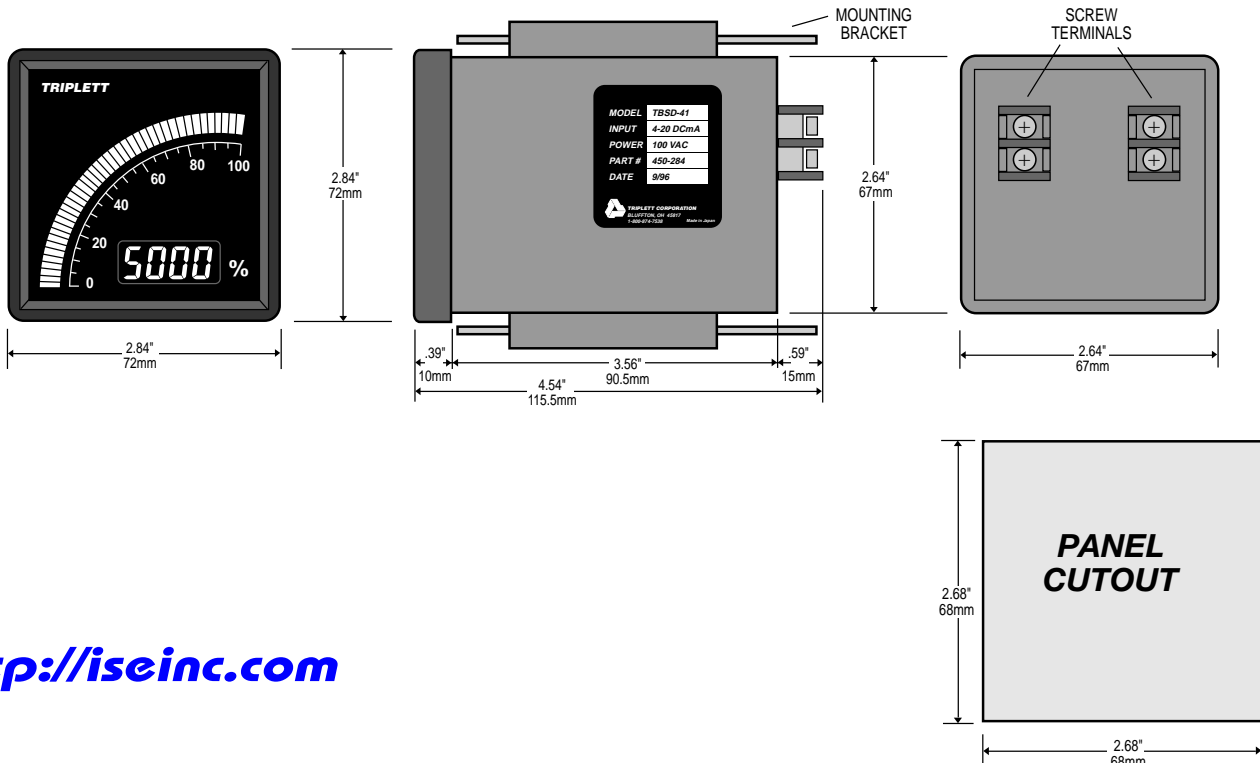
0 - 1 mA DC	200 ohms
4 - 20 mA DC	10 ohms
1 - 5 V DC	250 K ohms
0 - 10 V DC	250 K ohms



The arched LED bar of the TBSD-41, shown with an optional black on white scale, mimicks the sweep of an analog meter, plus, gives you the accuracy of a DPM with the 4 digit display, all in a compact 72 x 72mm case.



Dimensions & Panel Cutouts



TRIPLITT TB Series

TB-202 Dual LED Bargraph Indicator

Two, 101 segment LED indicators in one unit. This versatile bargraph has two isolated inputs and is available with Red, Amber or Green LED bars. The TB-202 can be mounted either vertically (standard) or horizontally.

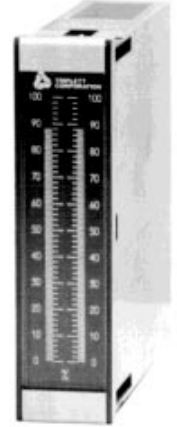
DISPLAY	Dual, 101 Segment LED Bar
CASE DIMENSIONS	1.42" W x 5.65" H x 6.25" D
PANEL CUTOUT	1.40" x 5.49"
WEIGHT	20.81 oz.
SCALE LENGTH	3.94"
BAR COLORS	Red, Green, Amber
ACCURACY	± 1%, 1 Segment
OPERATING TEMPERATURE	-5 to +60° C
STORAGE TEMPERATURE	-40 to +70° C
RESPONSE TIME	500 ms
SAMPLING PERIOD	3.3/sec
DIELECTRIC WITHSTAND	2 kV RMS for 1 min between case and circuit

POWER SUPPLY

5 VDC	2 W
110 VAC (Std)	5 VA
24 VDC	4 W
220 VAC	5 VA

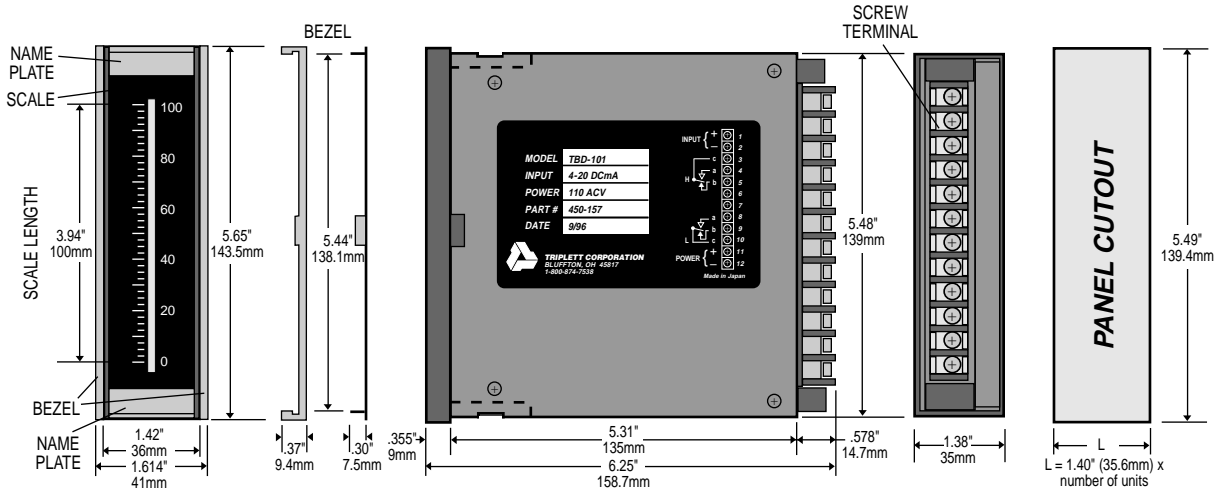
INPUT RANGES & IMPEDANCE

0 - 1 mA DC	200 ohms
4 - 20 mA DC	10 ohms
1 - 5 V DC	250 K ohms
0 - 10 V DC	250 K ohms



Maximize your panel space with the TB-202. Two isolated inputs in the space of one unit.

Dimensions & Panel Cutouts



TRIPLETT TB Series Ordering Guide

Edgewise Bargraphs

RED				
INDICATOR ONLY				
RANGE	TB-52	TB-101	TBD-101	TB-202
0-1 mA DC	450-100	450-104	450-152	450-200
4-20 mA DC	450-101	450-105	450-153	450-201
1-5 VDC	450-102	450-106	450-154	450-202
0-10 VDC	450-103	450-107	450-155	450-203

2 RELAYS				
RANGE	TB-52	TB-101	TBD-101	TB-202
0-1 mA DC	N/A	450-108	450-156	N/A
4-20 mA DC	N/A	450-109	450-157	N/A
1-5 VDC	N/A	450-110	450-158	N/A
0-10 VDC	N/A	450-111	450-159	N/A

4 RELAYS				
RANGE	TB-52	TB-101	TBD-101	TB-202
0-1 mA DC	N/A	450-112	450-160	N/A
4-20 mA DC	N/A	450-113	450-161	N/A
1-5 VDC	N/A	450-114	450-162	N/A
0-10 VDC	N/A	450-115	450-163	N/A

GREEN				
INDICATOR ONLY				
RANGE	TB-52	TB-101	TBD-101	TB-202
0-1 mA DC	N/A	450-128	450-176	450-208
4-20 mA DC	N/A	450-129	450-177	450-209
1-5 VDC	N/A	450-130	450-178	450-210
0-10 VDC	N/A	450-131	450-179	450-211

2 RELAYS				
RANGE	TB-52	TB-101	TBD-101	TB-202
0-1 mA DC	N/A	450-132	450-180	N/A
4-20 mA DC	N/A	450-133	450-181	N/A
1-5 VDC	N/A	450-134	450-182	N/A
0-10 VDC	N/A	450-135	450-183	N/A

4 RELAYS				
RANGE	TB-52	TB-101	TBD-101	TB-202
0-1 mA DC	N/A	450-136	450-184	N/A
4-20 mA DC	N/A	450-137	450-185	N/A
1-5 VDC	N/A	450-138	450-186	N/A
0-10 VDC	N/A	450-139	450-187	N/A

TBD-52	
INDICATOR ONLY	
RANGE	PART #
0-1 mA DC	450-363
4-20 mA DC	450-364
1-5 VDC	450-365
0-10 VDC	450-366

2 RELAYS	
RANGE	PART #
0-1 mA DC	450-367
4-20 mA DC	450-368
1-5 VDC	450-369
0-10 VDC	450-370

4 RELAYS	
RANGE	PART #
0-1 mA DC	450-371
4-20 mA DC	450-372
1-5 VDC	450-373
0-10 VDC	450-374

AMBER				
INDICATOR ONLY				
RANGE	TB-52	TB-101	TBD-101	TB-202
0-1 mA DC	N/A	450-116	450-164	450-204
4-20 mA DC	N/A	450-117	450-165	450-205
1-5 VDC	N/A	450-118	450-166	450-206
0-10 VDC	N/A	450-119	450-167	450-207

2 RELAYS				
RANGE	TB-52	TB-101	TBD-101	TB-202
0-1 mA DC	N/A	450-120	450-168	N/A
4-20 mA DC	N/A	450-121	450-169	N/A
1-5 VDC	N/A	450-122	450-170	N/A
0-10 VDC	N/A	450-123	450-171	N/A

4 RELAYS				
RANGE	TB-52	TB-101	TBD-101	TB-202
0-1 mA DC	N/A	450-124	450-172	N/A
4-20 mA DC	N/A	450-125	450-173	N/A
1-5 VDC	N/A	450-126	450-174	N/A
0-10 VDC	N/A	450-127	450-175	N/A

TRI-COLOR				
INDICATOR ONLY				
RANGE	TB-52	TB-101	TBD-101	TB-202
0-1 mA DC	N/A	450-140	450-188	N/A
4-20 mA DC	N/A	450-141	450-189	N/A
1-5 VDC	N/A	450-142	450-190	N/A
0-10 VDC	N/A	450-143	450-191	N/A

2 RELAYS				
RANGE	TB-52	TB-101	TBD-101	TB-202
0-1 mA DC	N/A	450-144	450-192	N/A
4-20 mA DC	N/A	450-145	450-193	N/A
1-5 VDC	N/A	450-146	450-194	N/A
0-10 VDC	N/A	450-147	450-195	N/A

4 RELAYS				
RANGE	TB-52	TB-101	TBD-101	TB-202
0-1 mA DC	N/A	450-148	450-196	N/A
4-20 mA DC	N/A	450-149	450-197	N/A
1-5 VDC	N/A	450-150	450-198	N/A
0-10 VDC	N/A	450-151	450-199	N/A

STANDARD POWER

- ▲ 5VDC: TB-52
- ▲ 110VAC: TBD-52, TB-101, TBD-101, TB-202
- ▲ For optional power voltages, please contact factory.

STANDARD SCALES

- ▲ All Scales, 0 - 100% Vertical, White on Black.
- ▲ Black on White printing optional.
- ▲ Horizontal & Special Scales available.

STANDARD RANGES

- ▲ 0-1mA DC, 4-20mA DC, 1-5 VDC, 0-10 VDC
- ▲ For additional ranges, please contact factory.

STANDARD CONNECTORS

- ▲ TB-52: Edge Card
- ▲ TB-101, TBD-101, TB-202, TBD-52: Screw Terminals

SETPOINT SPECIFICATIONS

TB-101, TBD-101, TBD-52 w/ 2 Setpoints - Min span between setpoints: 1% of Full Scale
 Relays: High Setpoint, 1 NO, 1 NC Contact
 Low Setpoint, 1 NO, 1 NC Contact

TB-101, TBD-101, TBD-52 w/ 4 Setpoints - Min span between setpoints: 1% of Full Scale
 Relays: High High 1 NO, 1 NC Contact (Same Common as High Setpoint)
 High 1 NO, 1 NC Contact
 Low 1 NO, 1 NC Contact
 Low Low 1 NO, 1 NC Contact (Same Common as Low Setpoint)

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TRIPLETT TB Series Ordering Guide

Square Bargraphs

RED				
INDICATOR ONLY				
RANGE	TBS-41	TBSD-41	TBS-51	TBSD-51
0-1 mA DC	450-275	450-283	450-291	450-327
4-20 mA DC	450-276	450-284	450-292	450-328
1-5 VDC	450-277	450-285	450-293	450-329
0-10 VDC	450-278	450-286	450-294	450-330
2 RELAYS				
RANGE	TBS-41	TBSD-41	TBS-51	TBSD-51
0-1 mA DC	N/A	N/A	450-295	450-331
4-20 mA DC	N/A	N/A	450-296	450-332
1-5 VDC	N/A	N/A	450-297	450-333
0-10 VDC	N/A	N/A	450-298	450-334
4 RELAYS				
RANGE	TBS-41	TBSD-41	TBS-51	TBSD-51
0-1 mA DC	N/A	N/A	450-299	450-335
4-20 mA DC	N/A	N/A	450-300	450-336
1-5 VDC	N/A	N/A	450-301	450-337
0-10 VDC	N/A	N/A	450-302	450-338

GREEN				
INDICATOR ONLY				
RANGE	TBS-41	TBSD-41	TBS-51	TBSD-51
0-1 mA DC	450-279	450-287	450-303	450-339
4-20 mA DC	450-280	450-288	450-304	450-340
1-5 VDC	450-281	450-289	450-305	450-341
0-10 VDC	450-282	450-290	450-306	450-342
2 RELAYS				
RANGE	TBS-41	TBSD-41	TBS-51	TBSD-51
0-1 mA DC	N/A	N/A	450-307	450-343
4-20 mA DC	N/A	N/A	450-308	450-344
1-5 VDC	N/A	N/A	450-309	450-345
0-10 VDC	N/A	N/A	450-310	450-346
4 RELAYS				
RANGE	TBS-41	TBSD-41	TBS-51	TBSD-51
0-1 mA DC	N/A	N/A	450-311	450-347
4-20 mA DC	N/A	N/A	450-312	450-348
1-5 VDC	N/A	N/A	450-313	450-349
0-10 VDC	N/A	N/A	450-314	450-350

TRI-COLOR				
INDICATOR ONLY				
RANGE	TBS-41	TBSD-41	TBS-51	TBSD-51
0-1 mA DC	N/A	N/A	450-315	450-351
4-20 mA DC	N/A	N/A	450-316	450-352
1-5 VDC	N/A	N/A	450-317	450-353
0-10 VDC	N/A	N/A	450-318	450-354
2 RELAYS				
RANGE	TBS-41	TBSD-41	TBS-51	TBSD-51
0-1 mA DC	N/A	N/A	450-319	450-355
4-20 mA DC	N/A	N/A	450-320	450-356
1-5 VDC	N/A	N/A	450-321	450-357
0-10 VDC	N/A	N/A	450-322	450-358
4 RELAYS				
RANGE	TBS-41	TBSD-41	TBS-51	TBSD-51
0-1 mA DC	N/A	N/A	450-323	450-539
4-20 mA DC	N/A	N/A	450-324	450-360
1-5 VDC	N/A	N/A	450-325	450-361
0-10 VDC	N/A	N/A	450-326	450-362

TBSD-101	
INDICATOR	
RANGE	PART #
0-1 mA DC	450-375
4-20 mA DC	450-376
1-5 VDC	450-377
0-10 VDC	450-378
1 RELAY	
RANGE	PART #
0-1 mA DC	450-379
4-20 mA DC	450-380
1-5 VDC	450-381
0-10 VDC	450-382
2 RELAYS	
RANGE	PART #
0-1 mA DC	450-383
4-20 mA DC	450-384
1-5 VDC	450-385
0-10 VDC	450-386

STANDARD POWER

- ▲ 110VAC: TBS-41, TBSD-41, TBS-51, TBSD-51, TBSD-101
- ▲ For optional power voltages, please contact factory.

STANDARD SCALES

- ▲ All Scales, 0 - 100%, White on Black.
- ▲ Black on White printing optional.
- ▲ Special Scales available.

STANDARD RANGES

- ▲ 0-1mA DC, 4-20mA DC, 1-5 VDC, 0-10 VDC
- ▲ For additional ranges, please contact factory.

STANDARD CONNECTORS

- ▲ Screw Terminals

SETPOINT SPECIFICATIONS

TBS-51, TBSD-51 w/ 2 Setpoints - Min span between setpoints: 1% of Full Scale

Relays: High Setpoint, 1 NO, 1 NC Contact
Low Setpoint, 1 NO, 1 NC Contact

TBS-51, TBSD-51 w/ 4 Setpoints - Min span between setpoints: 1% of Full Scale

Relays: High High 1 NO, 1 NC Contact (Same Common as High Setpoint)
High 1 NO, 1 NC Contact
Low 1 NO, 1 NC Contact
Low Low 1 NO, 1 NC Contact (Same Common as Low Setpoint)

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