

## Weschler Quatro BarGraph Meters

- 101 segment bargraph in red, green or tricolor
- 4-digit 10000 count LED display
- 6" edgewise & 9/64 DIN cases
- Vertical or horizontal orientation

### Features

- Single & dual bar configurations
- Adjustable bargraph span
- Bargraph center zero mode
- Four programmable setpoints
- Front panel setpoint status indicators
- Up to 4 relay outputs for control and alarms
- Analog retransmit option with adjustable span
- Wide power supply range (AC & DC)
- Sensor excitation to power 4-20mA transmitters or bridge type sensors



▲ Style A

Direct Measurement of

- DC Current
- AC Current
- DC Voltage
- AC Voltage
- Frequency
- Process Loops

- Thermocouples
- RTDs
- Load Cells/Strain Gauges
- Speed Pickups/RPM
- Pressure
- Resistance/Potentiometers

### Bar & Digital

Style A combines a precision 4 digit LED display with a 101 segment bargraph. The bar can be set to display any part of the digital range, from a minimum of 100 counts to the full 12000 A/D counts. Higher bar resolution is useful for applications where the normal operating range is only a portion of the full scale input. Style A offers 4 levels of display brightness, which can be set from the front panel.

### ORDERING INFORMATION

Select desired code for each category to build the 15 digit part number.  
Example Part Number: MAVTRCXP1AKXXX

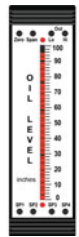
A B C D E F G H I J K XXX

<b>A Type</b>	F3	Frequency, 60-500VAC 99.99/999.9/9999Hz (Style A)
L 4 digit, 9/64 DIN Case	GF	Direct Pressure, 15 psi differential (clean, dry gas)
M 4 digit, 6" Edgewise Case	GH	Direct Pressure, 30 psi diff. (dry)
<b>B Style</b>	GK	Direct Pressure, 100 psi diff (dry)
A Digital & bar	M1	RPM, 99.99/999.9/9999Hz, 50mV-30V, w/24V Exc. (Style A)
C Single bar (no digital)	PD	Universal Process, 2V/5V/10V/ 20V/200V/2mA/20mA
D Dual bar (no digital)	PE	Dual Process, (style D only) 2V/10V/20V/200V/2mA/20mA
<b>C Orientation</b>	RD	Resistance, 2kΩ
V Vertical	SA	Strain Gage, 5/10VDC Excitation, 20/2mV/V, 4/6-wire
H Horizontal	SD	Pressure/Load Cell, 5/10V Excitation, 20/2mV/V, 4-wire
<b>D Bar Color</b>	TD	Thermocouple, J Type (0-1400°F) (Style C or D)
R Red	TE	Thermocouple, K Type (0-1999°F) (Style C or D)
G Green	W1	Thermocouple, J,K,R,T; Selectable °C/°F, 1°/0.1° (Style A)
T Tricolor (Style A or C only)	W2	RTD, 100Ω Pt Selectable 3/4-wire, °C/°F, 1°/0.1°, 385/392 (Style A)
<b>E Digital Display Color</b>	<b>I Power</b>	
R Red	1	85-265VAC/95-370VDC
G Green	2	15-48VAC/10-72VDC
X None (Style C or D)	<b>J Retransmit</b>	
<b>F Bar &amp; Scale Position</b>	A	Isolated 16 Bit Output, 4-20mA
C Center bar (Style A)	V	Isolated 16 Bit Output, 0-10VDC
A Center bar, scale left or above	X	None
E Center bar, scale right or below	<b>K Relays</b>	
X Dual bar (Style D)	for Type L:	
<b>G Second Bar Color (right or bottom bar)</b>	2	Two 10A Form C
R Red (Style D only)	4	Two 10A Form C & Two 5A
G Green (Style D only)		Form A **
X None	X	None
<b>H Input (Partial list)</b>	for Type M:	
AA AC Volts, scaled RMS, 200/600V	B	Two 10A Form C
AB AC Volts, scaled RMS, 200mV/2V/20V	E	Two 10A Form C & Two 5A Form A **
AC AC mA, scaled RMS, 2/20/200mA	K	Four 5A Form A
AD AC Amps, scaled RMS, 1A	T	Four 400V 140ma AC/DC SSR
AE AC Amps, scaled RMS, 5A	X	None
DE DC Volts, 2/20/200V/Custom w/Offset and 24V Excitation	<b>** shared common between A &amp; C</b>	
DF DC milliamp, 2/20/200mA w/Offset and 24V Excitation		
DG DC Amps, 1A		
DD DC Amps, 5A		
E1 Line Frequency, 60-500VAC, 199.9Hz, 400Hz optional (Style C or D)		
F2 Frequency, 50mV-30V w/24V Exc. 99.99/999.9/9999Hz (Style A)		

Inputs continued next column

### Single Bar

Style C offers a 101 segment red, green or tricolor bar, without digital display. The bar can be set to grow from the bottom or the center of the scale. The center mode is normally used for center zero but can also show deviation around a half-scale value.



▶ Style C



▲ Style D

### Dual Bar

The dual bar configuration (Style D) can display two process variables, using the Dual Process input card (PE). Any combination of red and green bars can be specified. Two setpoints are available for each channel. The dual input card may also be used to display one process variable on the left bar and two tracking setpoints on the right bar. In this mode, setpoint 1 is determined by the channel 2 input signal. Setpoint 2 is offset from setpoint 1 by a fixed (user selectable) amount.

The dual bar style can be used with a single channel input module & 4 set points. The left bar displays the process signal; the right bar displays min/max.

### SPECIFICATIONS

<b>Input Accuracy:</b>	
DCV, DCA	±(0.06% of reading + 2 counts)
ACV, ACA	±(0.07% of reading + 5 counts)
Temperature	±(0.1% of reading + 3 counts)
Direct Pressure	±(1.0% of range + 3 counts)
Frequency/RPM	±(0.06% of reading + 2 counts)
Strain/Load	±(0.08% of reading + 3 counts)
Process	±(0.06% of reading + 2 counts)
Resistance/Pots	±(0.06% of reading + 2 counts)
<b>Bargraph Display:</b>	4", 101 segment
<b>Bar Viewing Angle:</b>	±40° red or green, ±35° orange
<b>Digital Display:</b>	4 digit LED, 0.31" (7.9mm) height Range -1999 to 9999 counts
<b>Decimal Position:</b>	Front panel selectable n.nnn, nn.nn, nnn.n, nnnn.
<b>Relay Output:</b>	
Form A (SPST)	5A@250VAC, 5A@30VDC (resistive)
Form C (SPDT)	10A@240VAC, 8A@24VDC (resistive)
<b>Analog Output:</b>	Isolated 16 bit, user scalable
mA out	4-20mA, 500Ω maximum loop resistance
Volts out	0-10VDC, 500Ω minimum load resistance
<b>Power Supply:</b>	85-265 VAC / 95-370 VDC @ 2.5W (4.2W) 18-48 VAC / 10-72 VDC @ 2.5W (4.2W)
<b>Sensor Excitation:</b>	24V @ 50mA (2-wire loop power) 10V @ 120mA (bridge excitation)
<b>Operating Temperature:</b>	0 to 60°C, 95% RH (non-condensing)

[Complete Data Sheet \(pdf\)](#)