

Weschler Premo BarGraph Meter/Controller

NEW

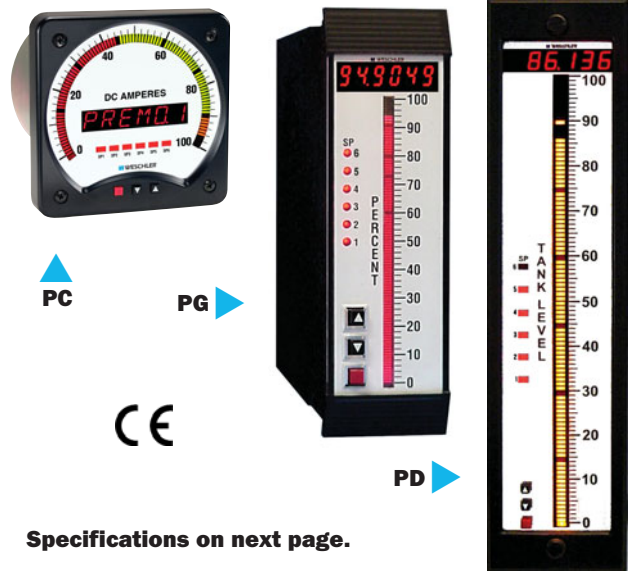
- 101 segment red, green or tricolor bar
- 6 digit alpha-numeric readout
- Rugged steel case, standard switchboard mounting
- 6 assignable relays with tracking, latching & manual reset functions
- Single or dual analog retransmit
- ASCII, Modbus Serial & Ethernet communications
- Wide variety of input modules
- Datalogging & PID control functions
- Cross channel calculations with multi-channel input modules
- Front panel & external dimming
- Enhanced table calibration for tank level, square law & other non-linear measurements
- Optional SD memory card for long term data logging
- 3 case styles

Direct Measurement of:

- DC Current
- AC Current
- DC Voltage
- AC Voltage
- Frequency
- Power
- Process Loops
- Thermocouples
- RTDs
- Load Cells/ Strain Gauges
- LVDTs
- Pressure
- Speed Pickups/ RPM
- Resistance/Potentiometers
- Quadrature
- Event Counting

The Premo Bargraph Controller is a full featured, high resolution meter for display and control of process parameters. A wide range of input modules measure electrical signals, sensors and transducers. Analog and digital outputs easily connect to remote indicators or a plant SCADA system. Up to 6 setpoints can be programmed to operate within the span of the selected input module. PID control is available from the first two setpoints.

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



PC PG PD

CE

Specifications on next page.

CONTROLLERS

ORDERING INFORMATION

To Order—Insert Code for Each Letter to Select Catalog Number.
Order Example: PCRGDCQ1A5CXXX

PC	A	B	C	D	E	F	G	H	I	J
A	Style									
	C	4 1/2" Switchboard								
	D	12" Edgewise Vertical								
	G	6" Edgewise Vertical								
B	Bar Color									
	R	Red								
	G	Green								
	T	Tricolor								
C	Digital Display Color									
	R	Red								
	G	Green								
D	Input (partial list)									
	DBQ	DC, 20/50/100/200mV w/24V Excitation								
	DCQ	DC, 2/20/200mA w/24V Exc								
	DGQ	DC, 1A								
	DDQ	DC, 5A								
	ABQ	AC, 200mV/2V/20V, scaled RMS								
	AAQ	AC, 200/600V, scaled RMS								
	AGQ	AC, 200mV/2V/20V, True RMS								
	AFQ	AC, 200/600V, True RMS								
	ACQ	AC, 2/20/200mA, scaled RMS								
	ADQ	AC, 1 Amp, scaled RMS								
	AEQ	AC, 5 Amp, scaled RMS								
	AHQ	AC, 2/20/200mA, True RMS								
	AJQ	AC, 1A, True RMS								
	AKQ	AC, 5A, True RMS								
	PDQ	Process 2/5/10/20/200V/2mA/20mA/Custom								
	TMP	Thermocouple, J/K/R/S/T/B/N								

ORDERING INFORMATION CONTINUED

D	Input continued	
	THP	RTD, 100Ω Pt, 2/3/4-wire
	GHQ	Direct Pressure, 30 psi differential/gage
	GKQ	Direct Pressure, 100 psi differential/gage
	SBQ	Pressure 5/10VDC Exc., 2/20 mV/V, 4/6-wire
	EAP	Line Frequency, 50-500VAC
	FAP	Universal Frequency / RPM / Up Down Counter
	CAP	Quadrature Counter
	REP	Resistance, 2/3/4-wire, 200/2k/20kΩ
	KAP	Single Phase Power, 300V/1A from CT
	KBP	Single Phase Power, 300V/5A from CT
	KCP	DC Watts, 200V/50mV from shunt
	PAD	Dual Process Loop, 4-20mA
	DCD	Dual DC, 2mA
	DBD	Dual DC, 2V
	TAD	Dual Thermocouple, J/K/R/T
	FAD	Dual Frequency
	FBD	Dual Counter
E	Power	
	1	85-265VAC/95-370VDC
	2	15-48VAC/10-72VDC
F	Retransmit (analog output)	
	A	Isolated 4-20mA or 0-20mA, scalable
	V	Isolated 0-10VDC, scalable
	D	Isolated Dual 0-10VDC, scalable
	X	None
G	Communications	
	2	Isolated ASCII Code RS-232
	4	Isolated ASCII Code RS-485
	5	Isolated ModBus Protocol RS-232
	6	Isolated ModBus Protocol RS-485
	8	Ethernet ACSII TCP/IP
	9	Ethernet ModBus TCP/IP
H	Relays (partial list)	
	C	Two 10A Form C
	D	Two 10A Form C & Two 5A Form A
	H	Six Form A
	X	None
I	Memory	
	A	1M with Real time clock
	X	Standard
J	Options (2 digits)	
	D	Continuous external dimming
	W	Spray tight front
	X	None

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SPECIFICATIONS

Digital Display Range:	-199999 to 999999
Decimal Point:	Five positions, front panel selectable
Update Rate:	3 to 10 times per second
Display Dimming:	8 level from front panel; continuous external option
A/D Converter:	Bipolar 17 bit (optional 23 bit)
Counter Functions:	Two built-in Up/Down counters
Data Logging:	Logging with date/time (Memory option A)
Trigger:	Time interval, setpoint, manual
Data storage:	Non-volatile EEPROM
Linearization:	4 selectable 32 point tables, cascadeable
Math Functions:	Sum, difference, ratio or the product of two inputs
Offset Functions:	Tare, compensation and calibration
Peak and Valley:	Min/Max storage with front panel recall
Digital Comm:	RS-232, RS-485, Ethernet
Setpoint Functions:	Hysteresis, on/off delays, one shot, pulse and repeat timers, latching, dual PID, setpoint tracking, logging trigger
Signal Processing:	Averaging, smart filter, rounding, square root
Timer:	Time-up, time-down, or real-time clock modes
Totalizer:	Two, for Total and Batch Total
Analog Output:	Isolated 16-bit, accuracy 0.02% FS
Resolution:	0.4µA on current, 250µV on voltage
Compliance:	500Ω max. for current, 500Ω min. for voltage
Real Time Clock:	Optional, 15 yr Lithium battery backup
Power:	85-265VAC / 95-370VDC @ 5W max
(DC to 400Hz)	15-48VAC / 10-72 VDC @ 5W max
Operating Temperature:	0-50°C (32-122°F), <95% (non-condensing) at 40°C
Software:	PC-based configuration utility

Style C

Bar:	7.25" length, 235° arc, ±60° viewing angle
Digits:	0.43" (10.9mm) height
Case:	Steel housing, molded front & rear bezel
Size:	4.43" square bezel, 4.75" behind panel
Mounting:	Fits standard ANSI 4" switchboard cutout

Style G

Bar:	10" length, ±60° viewing angle
Digits:	0.31" (7.9mm) height
Case:	Steel housing, molded rear bezel
Size:	1.7" x 6.04", 7" behind panel
Mounting:	Fits standard ANSI 6" switchboard cutout

Style D

Bar:	4" length, ±60° viewing angle
Digits:	0.43" (10.9mm) height
Case:	Steel housing, metal front, molded rear bezel
Size:	3.15" x 12.9", 7.8" behind panel
Mounting:	Fits Bailey draft gauge cutout

Yokogawa Temperature Controllers

- On/Off, PID, Heat/Cool & Limit Control
- Dynamic auto tune & "SUPER" overshoot suppression
- Compact 1/16 DIN package
- Large LED display
- IP65 splash & dust-proof front panel
- Optional analog retransmit of measured value
- Timer function (UT150)
- Optional heater burnout alarm & two alarm output relays
- Optional 24V AC/DC power supply
- Optional RS-485 MODBUS communication



▲ **UT130**

SPECIFICATIONS

Input:	
RTD:	3-wire Pt100
T/C (all models):	J, K, T, E, L, U
T/C (UT150 models):	R, S, B, N, platinum
DC In (UT150 models):	0-100mV, 0-5V, 1-5V, 0-10V
Basic Accuracy:	
T/C:	±2°C ±1d
RTD:	±1°C ±1d
DC:	±0.3% ±1d
Setpoints:	1 on UT130, 2 on UT150
Timer (UT150 models):	Up to 100 hours
Retransmit:	4-20mA
Contact Input:	2 points for SP select, run/stop or timer
Contact Output:	2 for alarm, heater disconnect or timer
Alarm:	25 types
Display:	UT130: single 0.7" 3-digit LED UT150: dual (red/green) 4-digit LED
Power:	100-240VAC, 8VA
Approvals:	UL, CSA, CE
Temperature:	0-50°C operating
Dimensions:	48x48x100mm

ORDERING INFORMATION

To Order—Insert Code for Each Letter to Select Catalog Number

A B C Example: UT130-RN/AL/RS

A	Model
	UT130 Temperature Controller
	UT150 Temperature & Voltage Controller
	UT150L Limit Controller
B	Control
	/RN Relay output
	/VN Pulse output ³
	/AN 4-20mA output (UT150 only) ³
	/RR Heat/cool relay outputs ³
	/VV Heat/cool pulse outputs ³
	/AA Heat/cool 4-20mA outputs (UT150 only) ³
C	Options
	/AL Alarm output (2 points)
	/V24 24V AC/DC power supply ³
	/HBA Heater disconnect alarm ^{2,3}
	/RET Analog retransmit (UT150 only)
	/RS RS-485 Communications
	/EX Two contact input (UT150 only) ¹

¹ cannot be ordered with communications when heat/cool control specified

² cannot be ordered with communications

³ not available on UT150L