

PRESIDENT SERIES COUNT / CONTROL

Totalizers

MODELS

57810-400	7 Digit with Ratemeter
58810-400	8 Digit Totalizer
58811-400	8 Digit with Scaling
58815-400	8 Digit with Ratemeter and Scaling

- Serial Communications
- Reset to Offset Value
- Ratemeter Option
- Count Scaling Option



Model 58810-400



Model 58815-400

Your measuring system isn't complete without a dependable means of recording and verifying production totals. Durant's President Series offers several models to complement the other single and multiple preset controls. These totalizers offer the familiar President Family features and reliability. The non-volatile memory, easy to read .56 inch LED displays, simple programming, standard package size, and flexible configuration all add up to a totalizer with exceptional value.

The Models 58811-400 and 58815-400 both offer count input scaling to adjust the displayed count value to compensate for mechanical system wear or to display in useful units such as feet, inches or gallons.

Rate display is available in two totalizer models. This feature allows you to monitor production rate as well as production totals. The Model 57810-400 uses an adjustable time base method to measure rate while the 58815-400 uses our 1/tau method that measures the time between input pulses and calculates the rate. This model also lets you program a rate scale factor that allows you to show

production in meaningful units such as feet per minute, bottles per hour or gallons per minute.

The 58811-400 and 58815-400 use function code programming while the other models use rear panel mounted DIP switches.

An offset feature allowing you to reset a control to a value other than zero is available in several models.

All totalizers except the 57810-400 feature the powerful President Family communications capability. This 20 mA 1200 baud serial communications link allows you to combine your totalizer with our Star Network Controller and Datalog products to give you a complete production monitoring system. Total, rate and offset values may be remotely read from the unit. Offset and scale factors may be sent to the counter.

You will find the President line of totalizers to be solid performers for your production monitoring needs.

Specifications and Operation

Physical and Environment

See President Series general specifications.

Power Requirements

AC Power

57810-400 120VAC (+10%, -20%) 47 to 63 Hz. 8W.
 57810-401 240VAC (+10%, -20%) 47 to 63 Hz. 8W.
 58810-400 120/240VAC (+10%, -20%) 47 to 63 Hz. 22W.
 58811-400 120/240VAC (+10%, -20%) 47 to 63 Hz. 18 W.
 58815-400 120/240VAC (+10%, -20%) 47 to 63 Hz. 18 W.

DC Power

57810-400, 57810-401, and 58810-400 can be powered by 11 to 15VDC.
 58811-400 and 58815-400 can be powered by 11 to 28VDC.

DC Power Output

57810-400, 57810-401 15VDC (+1, -2) at 85mA.
 58810-400 15VDC (+1, -2) 100mA.
 58811-400, 58815-400 15VDC (+1, -2).
 150mA if powered from AC or less than 24VDC.
 100mA if powered from more than 24VDC.

Control Inputs

Model 57810-400/401

Count/rate display select.
 Reset, momentary or maintained.

Model 58810-400

Reset, momentary or maintained.
 Print/display latch.

Models 58811-400, 58815-400

Reset, momentary or maintained.
 Print/display latch.
 Program inhibit.
 Also has "rate display select."

All models have front panel reset (may be disabled).

Count Scaler Option

Models 58811-400, 58815-400

Scale Factor Range: 0.0001 to 9.9999.

Operating Modes

Model 57810-400/401

Reset to zero.

All Other Models

Reset to zero or reset to offset.

Count Input Modes (2 input signals)

Model 57810-400/410

Add/subtract, add/add, subtract/subtract, add/count inhibit, subtract/count inhibit, count/direction control, quadrature. All modes have count double function to count on both rising and falling edges of pulse.

Model 58810-400, 58811-400, 58815-400

Add/subtract, add/count inhibit, count/direction control, quadrature. All modes except count/inhibit have count double function to count on both rising and falling edges of pulse.

Count Input Signal Requirements

Current sinking signal, must conduct to DC common. Must block 15 VDC in high state and sink 2.2 mA in low state. Current sourcing signals may be used with external resistor.

Maximum Count Speeds:

Model	SF=1	SF<1	SF>9	Low Speed
57810-400	12 kHz	N/A	N/A	150 Hz
58810-400	10 kHz	N/A	N/A	150 Hz
58811-400	7.5 kHz	6.25 kHz	3.40 kHz	150 Hz
58815-400	7.5 kHz	6.25 kHz	3.50 kHz	150 Hz

SF= User programmable scale factor on models with scaling. Maximum input frequency is reduced by approximately 50% when count input doubling or quadrature mode is used.

Ratemeter Option Specifications

Model 58815-400

Rate Source: Count input or scaled count input.
 Accuracy: $\pm 1\%$.
 Resolution: 4 digits with floating or fixed decimal point.
 Maximum Time Between Rate Pulses: 1-90 seconds.

Models 57810-400/410

Rate Source: Count input.
 Programmable Sample Time Range: 0.001-9.999.
 Accuracy: +1.5%, -2.0%.
 Programmable fixed decimal point.

Serial Communication Interface

20 mA current loop, 110, 300 or 1200 Baud.
 (Not available on model 57810-400/401).

ORDERING INFORMATION

Model Number	Product Description
57810-400	7 Digit Totalizer with Ratemeter 120 VAC
57810-401	7 Digit Totalizer with Ratemeter 240 VAC
58810-400	8 Digit Totalizer 120/240 VAC
58811-400	8 Digit Totalizer with Scaling 120/240 VAC
58815-400	8 Digit Totalizer with Ratemeter and Scaling 120/240 VAC