

**Ambassador Series (Totalizers)****Product Description**

Eaton's Ambassador Series is our most noise-immune totalizer available. Various counting modes can be set by the user.

**Features**

- AC/DC powered, two-line LCD display
- Eight-digit totalizer
- 1/Tau ratemeter
- Totalizer and ratemeter scaling
- Four user-configurable control inputs
- Two solid-state outputs
- RS-485 serial communications

**Standards and Certifications**

- UL listed
- CE marked

**Product Selection****Ambassador Series****Ambassador Series Totalizers**

Description	Catalog Number
10–15 Vdc LCD	<b>57600400</b>
115 Vac LCD	<b>57601400</b>
230 Vac LCD	<b>57602400</b>

**Technical Data and Specifications****General Specifications**

Description	Specification
<b>Power Input</b>	
AC operation	115 Vac ( $\pm 15\%$ ) std., 50 to 60 Hz, 7W 230 Vac ( $\pm 15\%$ ) opt., 50 to 60 Hz, 7W
DC operation	10–15 Vdc opt., 300 mA maximum
DC power output	12 Vdc ( $\pm 25\%$ ), 100 mA maximum (includes all line and load variations)
<b>Environmental</b>	
Operating temperature	32° to 131°F (0° to 55°C)
Storage temperature	–4° to 158°F (–20° to 70°C)
Operating humidity	85% relative, non-condensing
Rating	NEMA 4 when mounted with gasket provided
<b>Totalizer</b>	
Type	Bi-directional
Digits	Eight
Scaler range	0.00001 to 9.99999
Decimal point	Five positions, programmable
<b>Totalizer Count Speeds</b> <sup>①</sup>	
Maximum speed—solid-state (high speed)	
Mode	Input A/Input B
Add/sub	20 kHz
Add/add	20 kHz
Count/direction	15 kHz
Count x 2/direction	7.5 kHz
Quadrature	6.5 kHz
Quadrature x 2	6.5 kHz
Maximum speed—contact (low speed)	
Mode	Input A/Input B
Add/sub	40 kHz
Add/add	40 kHz
Count/direction	0 kHz

**Note**

<sup>①</sup> The maximum count speed depends on the selected count mode. All maximum speeds are shown with square waves (50% duty cycle) input.

## General Specifications, continued

Description	Specification
<b>Count Inputs</b>	
Sink	
Impedance	4.6k ohms to +5 Vdc
Voltage	
High	3.5 to 34.0 Vdc
Low	0.0 to 1.9 Vdc
Source (high)	
Impedance	2.3k ohms to common
Voltage	
High	3.5 to 17.0 Vdc (100% duty cycle)
Low	0.0 to 1.9 Vdc
Source (low)	
Impedance	2.3k ohms to common
DC voltage	
High	0.6 to 17.0 Vdc
Low	-17.0 to -0.6 Vdc
AC voltage	17 Vac (48V peak-peak) maximum
<b>Control Inputs</b>	
Impedance	4.7k ohms to +5 Vdc
Voltage	
High	+3.7 to +24 Vdc
Low	0.0 to 0.9 Vdc
Response	Minimum low 15 ms, minimum high 15 ms
<b>Transistor Outputs (2)</b>	
Type	NPN open collector with transient protection
Maximum voltage (OFF state)	30 Vdc
Maximum current (ON state)	200 mA at 1.3 Vdc
<b>Communication</b>	
Type	RS-485
Format	1 start bit, 7 data bits (ASCII), 1 parity bit, 1 stop bit
Protocol	Opto-22 compatible
Speed	300, 1200, 2400, 4800, 9600 and 19200 baud
Parity	Odd, even, none (space transmitted, ignore received)
<b>Count Accuracy</b>	
Operating within specifications	100% when operated within the specified count speeds and count signal high and low times
<b>Rate Indicator</b>	
Type	1/Tau
Digits	Six
Scaler range	0.00001 to 99999
Decimal point	Five positions, programmable
Accuracy	±0.015% of reading
Update time	1 second, fixed
Zero time	10 seconds, fixed
<b>Connections</b>	
Type	Dual depluggable screw terminal strips
Conductor size	14-22 AWG (2.1-0.38 mm <sup>2</sup> ), 600V, solid, stranded or fused (preferred)

### Dimensions

Approximate Dimensions in Inches (mm)

#### Ambassador Series Totalizer

