

## A103 Series Totalizer

The A103 Series Totalizers provide a range of capabilities unequalled in products of similar size and cost. In addition to the totalizing models shown here, the A103 series also includes matching indicators for timing and rate/speed metering and models with a preset output for control by count or time. All are in a uniform 36 x 72 millimeters bezel size package, enhancing your control panel with a family of devices that look and program alike.

A supertwist LCD display with thick 12mm (.47") high digits allows for easy viewing at a glance and feature display-backlight capability by simply connecting an external 12VDC supply.

Powered by an internal 3 volt battery, the A103's unique design has two battery slots; this allows battery changeover without loss of memory. Numerous types of inputs can be accepted giving you a totally self-contained system not requiring external power.

The A103 totalizers are further enhanced by a series of quick-attach option modules. These can provide a power supply for sensors and display backlighting, and accept high or low voltage AC or DC input signals.



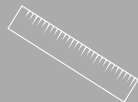
- Matching predetermining counter, time and rate indicators and controllers available – look great together on a panel
- Bidirectional models with input scale multiplier, polarity sign, decimal point selection, and programmable reset value
- High visibility 8-digit LCD display with backlighting capability standard
- Long life 3 Volt lithium battery eliminates the need for external power
- Accepts input signals from a variety of sources
- Resettable remotely or from the front panel
- Option modules provide additional functionality and added convenience – fast, easy installation
- NEMA 4X/IP65 rated front panel for use in washdown environment



TIME



COUNT



MEASURE

8:43

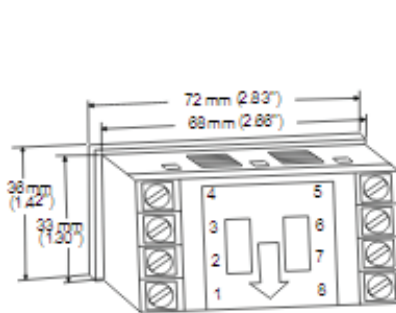
DISPLAY

# A103 Series Totalizer

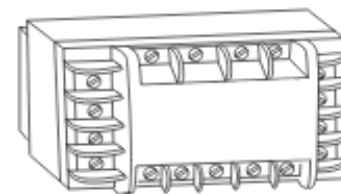
## SPECIFICATIONS

HIGH SPEED COUNT INPUT	PNP or square wave pulse; 10 kHz max (50% duty cycle) 45 $\mu$ sec min pulse width; Low State: < 1.0 VD High State: > 2.0 VDC (28VDC max)
LOW SPEED COUNT INPUT	NPN, Contact Closure; 30 Hz max (50% duty cycle) 12 ms min pulse width; Low State: < 1.0 VDC High State: > 2.0 VDC (28VDC max)
CALIBRATION	(Models A103-001 & A103-002) Programmable input scale multiplier. Range: 0.0001 to 99.9999
SECURITY INPUT	Allows access to panel reset and programming features
RESET ACTION	Reset to zero by panel button or remote input. Models A103-001 & A103-002: Programmable for reset to a value of -999999 to 999999
REMOTE RESET INPUT	NPN or Contact Closure to common; edge sensitive
POWER SOURCE	Single or dual 3V Lithium battery; Typical 5 years life w/single battery, 10 years w/dual batteries. Field-replaceable batteries
DISPLAY	12mm high, Supertwist LCD; 8 digits; "Low Bat" indicator. A103-001 & A103-002 have polarity sign to indicate counting below zero
BACLIGHTING	Green Illumination over whole viewable area. Requires 10 to 28 VDC power source
MOUNTING	Panel Mount with supplied mounting bracket and gasket
CONNECTIONS	Screw terminals
OPERATING TEMPERATURE	+32° to +131°F (0° to +55°C)
WEIGHT	64 g (2.25 oz.)

## DIMENSIONS



A103 Rear View



Option Module Rear View

### Depth Behind Panel

Without Adaptor Module: 39mm (1.54")

With Adaptor Module: 89mm (3.50")

Panel Cutout: 33mm x 88mm (1.30" x 3.47")

## ORDERING INFORMATION

### Standard Models

A103-000	A103 Totalizer
A103-001	A103 Totalizer with Add/Subtract
A103-002	A103 Position Indicator (encoder input only)

### Option Modules

Option modules accessories provide a convenient integrated solution to applications that require count signal voltage conditioning, and/or a voltage source for use with external sensors or the A103's display backlight feature. Specifications for each option module feature follow, while specific combinations of features are listed in the "Models" below. The following option modules attach to the rear of the A103 Series Totalizer.


High Voltage Input: Allows A103 to accept 100 to 260 Volt AC/DC for count input


Low Voltage Input: Allows A103 to accept 5 to 30 VAC or VDC for count input

AC Power Supply: Provides 10 - 20 VDC @ 50mA for display backlighting and/or sensor. Requires connection to 115 or 230 VAC, 50/60 Hz

A103-A12	AC Power Supply	605472-0001	Replacement Battery
A103-A17	Low Voltage Input	A103-A40	Panel Hole Punch
A103-A19	AC Power Supply, Low Voltage Input		
A103-A10	High Voltage Input		
A103-A14	AC Power Supply, High Voltage Input		

Special variations available. Please consult factory.

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