

A103 Series Rate Meter with Totalizer

The A103 Series Rate Meters with Totalizer are extremely compact indicators providing high-visibility readout of virtually any rate: gallons/minute, feet/minute, parts/hour, etc. – plus a total count. Easy to program input-scaling, decimal point, and “dummy-zero” features assure maximum flexibility for any application. The A103 series also includes matching indicators for count totalization, elapsed time indication, simple speed display (RPM) as well as 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.

The A103 Series Rate Meters with Totalizer 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.



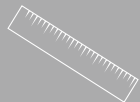
- Matching totalizing and preset counters, elapsed time indicators, preset timers, and advanced feature rate indicators look great together on a panel
- High visibility LCD, 4-digit rate and 8-digit totals display with programmable decimal point and “dummy zero”.
- Backlighting capability standard
- Dual input scale multipliers for independent engineering unit calibration of rate and total
- Long life 3 Volt lithium battery eliminates the need for external power
- Option modules provide additional functionality and added convenience – fast, easy installation
- NEMA 4X/IP65 rated front panel for use in washdown environments



TIME



COUNT



MEASURE

8:43

DISPLAY

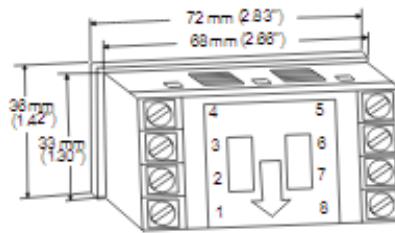
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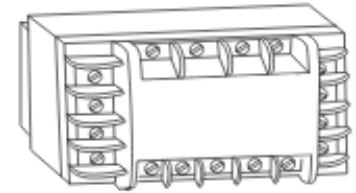
SPECIFICATIONS

HIGH SPEED COUNT INPUT	PNP or square wave pulse; 10 kHz max (50% duty cycle) 45 μ sec min pulse width; Low State: < 1.0 VDC 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)
CALIBRATOR	Independent programmable input scale multipliers for rate (range: 0.001 to 9999) and totals (range: 0.0001 to 99.9999) Additional calibrator for pulsed output (model A103-009)
PULSED OUTPUT	A103-009 Model only. Isolated Photomos relay; 0.1 amp @ 30 VAC/DC, >50 Ω on resistance. Independent programmable calibrator scales input pulse rate by multiplier of 0.0000 to 0.9999
POWER SOURCE	Single or dual 3V Lithium battery; Typical 5 years life w/single battery, 10 years w/dual batteries.
DISPLAY	12mm high, Supertwist LCD; 8 digits; "Low Bat" indicator
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 3.46")

ORDERING INFORMATION

Standard Models

A103-007 A103 Preset Counter

Option Modules

Option modules accessories provide a convenient integrated solution to applications that require AC or high voltage DC signals, and/or a voltage source for use with the A103's display backlight feature or external. Specifications for each option module feature follow, while specific combinations of features are listed below.

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

Mechanical Relay Output: SPDT (Form C); 120/240 VAC, 30 VDC contacts, 5A

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		