A103 Series Preset Counter

The A103 Series Preset Counters are amazingly compact in size and low in cost, with a full complement of popular features. In addition to the preset counters, the A103 Series includes matching indicators and timers.

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 Series Preset Counters are further enhanced by a series of quick attach option modules. These can provide a power supply for sensors and display backlighting, provision for high or low voltage AC or DC count signals and mechanical relay output.

- Matching totalizers, time and rate indicators and controllers available – look great together on a panel
- SSR relay input - selectable normally open or normally closed operation
- 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
A103 Series Preset Counter

SPECIFICATIONS

HIGH SPEED COUNT INPUT
- PNP or square wave pulse; 10 kHz max (50% duty cycle)
- 45 μsec 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)

SECURITY INPUT
- Allows access to panel reset and programming features

REMOTE RESET INPUT
- NPN or Contact Closure to common, edge sensitive

CONTROL OUTPUT
- Isolated Photomos relay
- 0.1 amp @ VAC/DC, >50 Ω on resistance
- Programmable normally open or normally closed operation

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

ORDERING INFORMATION

Standard Models
A103-007 A103 Preset Counter

Option Modules
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
A103-A11 Relay Output
A103-A13 High Voltage Input, Relay Output
A103-A15 AC Power Supply, Relay Output
A103-A16 AC Power Supply, High Voltage Input, Relay Output
A103-A18 Low Voltage Input, Relay Output
A103-A20 AC Power Supply, Low Voltage Input, Relay Output