



**Compact, cost effective control by elapsed time... large display with backlighting**

The A103 Preset Timers are amazingly compact in size and low in cost, with a full complement of popular features such as field programmable Up or Down timing and Interval or ON-delay operation. The A103 series also includes matching indicators for count-totalizing, timing, and rate metering, as well as preset-counter models. 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.

- Matching totalizing counter, time and rate indicators, and preset-counters available – look great together on a panel
- SSR relay output – selectable Interval or ON-delay operation
- High visibility 7-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: Dry Contact, PNP or NPN Sensors, Encoders
- Programmable Up or Down timing
- Resettable remotely or from the front panel
- Programmable security of front panel reset button and preset entry
- Option modules provide additional functionality and added convenience – fast, easy installation
- NEMA 4/IP65 rated front panel for use in washdown environments

The A103 Preset Timers 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 timing signals, and mechanical relay output.

## SPECIFICATIONS

**Start/Stop Input:** NPN, Contact Closure; Accumulates time when connected to common; 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 @ 30 VAC/DC, >50Ω on resistance. Programmable Interval or ON-delay operation

**Power Source:** Single or dual 3V Lithium battery; typical 5 years life w/single battery, 10 years w/dual batteries

**Ranges & Resolution:** Seconds, minutes to 1/10, hours to 1/10, hours: minutes: seconds

**Display:** 12mm high, Supertwist LCD; 7 digits; "Low Bat" indicator.

**Backlighting:** Green Illumination over whole viewable area. Requires 10 to 28 VDC power source

**Dimensions & Mounting:** See dimensions figure. Panel Mount with supplied mounting bracket and gasket

**Connections:** Screw terminals

**Weight:** Approximately 64 grams (2.25 ounces)

## OPTION MODULE SPECIFICATIONS

Option modules accessories provide a convenient integrated solution to applications that require AC or high-voltage DC signals, a mechanical relay output, 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" table, below.

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

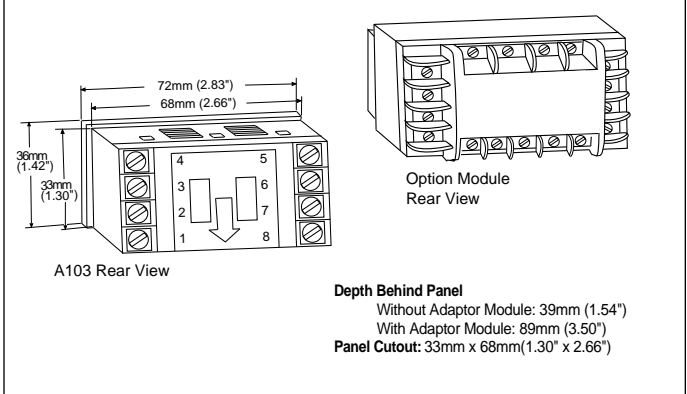
**Low Voltage Input:** Allows A103 to accept 5 to 30 VAC or VDC as timing input

**High Voltage Input:** Allows A103 to accept 100 to 260 Volt AC/DC as timing input

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

Model No.	Description			
A103-008	A103 Preset Timer			
<b>The following option modules attach to the rear of the A103:</b>				
Model No.	AC Power Supply	Low Voltage Input	High Voltage Input	Relay Output
A103-A12	X			
A103-A17		X		
A103-A19	X	X		
A103-A10			X	
A103-A14	X		X	
A103-A11				X
A103-A13			X	X
A103-A15	X			X
A103-A16	X		X	X
A103-A18		X		X
A103-A20	X	X		X

## Dimensions:





**Cost effective, compact  
elapsed time indicator...  
large display with  
backlighting**

The A103 Elapsed Time Indicators provide a range of capabilities unequaled in products of similar size and cost. A single model can be programmed to display in seconds, minutes, hours, or hours: minutes: seconds. The A103 series also includes matching indicators for count totalization and rate metering, 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.

Timing start/stop can be initiated by solid-state signals or mechanical switches.

- Matching totalizing and preset counters, preset timers, tachometer/rate indicators are available – look great together on a panel
- High visibility 7-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: Dry Contact, PNP or NPN Sensors
- Single multirange model covers popular time resolutions
- Resettable remotely or from the front panel
- Programmable security of front panel reset button
- Option modules provide additional functionality and added convenience – fast, easy installation
- NEMA 4/IP65 rated front panel for use in washdown environments

The A103 timers 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.

## SPECIFICATIONS

**Start/Stop Input:** NPN, Contact Closure; Accumulates time when connected to common; 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

**Power Source:** Single or dual 3V Lithium battery; typical 5 years life w/single battery, 10 years w/dual batteries

**Ranges & Resolution:** Seconds, minutes to 1/10, hours to 1/10, hours: minutes: seconds

**Display:** 12mm high, Supertwist LCD; 7 digits; "Low Bat" indicator

**Backlighting:** Green Illumination over whole viewable area. Requires 10 to 28 VDC power source

**Dimensions & Mounting:** See dimensions figure. Panel Mount with supplied mounting bracket and gasket

**Connections:** Screw terminals

**Weight:** Approximately 64 grams (2.25 ounces)

## OPTION MODULE SPECIFICATIONS

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 in the "Models" table, below.

**High Voltage Input:** Allows A103 to accept 100 to 260 Volt AC/DC as timing input

**Low Voltage Input:** Allows A103 to accept 5 to 30 VAC or VDC as timing input

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

Model No.	Description		
A103-006	A103 Elapsed Time Indicator		
<b>The following option modules attach to the rear of A103 timers:</b>			
Model No.	AC Power Supply	Low Voltage Input	High Voltage Input
A103-A12	X		
A103-A17		X	
A103-A19	X	X	
A103-A10			X
A103-A14	X		X

