4980

Configurable On/Off Cycling Timer

The 4980 is a highly configurable on/off cycling timer which provides a high current relay contact output. It provides 6 different timing ranges for the ON and OFF times in addition to multiple settings for cycle time adjustment (full, limited, fixed) and the timing adjustment increment. The ON and OFF timing configurations are *independent from each other*, allowing for such configurations as a fixed ON time in 0.01 second increments and adjustable OFF times up to 9999 hours.

With the timer configured as from the factory, upon application of power the timer displays **rdY** and is in an idle state. Pressing the [RUN] button starts the ON cycle which turns the relay contacts on and counts the on time down on the LED display. Once the ON cycle is complete the timer turns the output relay off and starts counting down the OFF cycle. Pressing the [PAUSE/STOP] button at any time will turn the output relay off (if it is on) and the display flashes the current time. Pressing the [PAUSE/STOP] again continues the timing cycle from when it was paused. Press and holding the [PAUSE/STOP] button for 2 seconds resets the timer back to the idle state.

The timing values are set in the idle state, pressing and holding the [ON TIME] button displays the current on time which can then be adjusted with the up and down buttons. Holding the up and down buttons cause the values to scroll at increasing rates. Use the [OFF TIME] button in a similar manner to change that time.

The timer always saves its current state when power is removed, and can be configured to power up into various states: the state it was powered down in, always to the ON cycle, always to the OFF cycle, into the paused state, or into the idle state. The user can also configure which state the controller starts in when the [RUN] button is pressed, either the ON state or the OFF state.

Italics below indicate the factory defaults, ON and OFF timing configurations are both at default values:

Timing Cycle Range

rA:00	*Minutes:Seconds, 00:01 to 99:59*
rA:01	Hours:Minutes, 00:01 to 99:59
rA:02	Seconds 1 to 9999
rA:03	Seconds 0.01 to 99.99
rA:04	Minutes 1 to 9999
rA:05	Hours 1 to 9999

Cycle Time Adjustment

CA:00	*Full time range available*
CA:01	Adjustable between limits
CA:02	Timing fixed

Time Adjustment Value

tI:01	*1 – 99, 1 = default*

Lower Limit or Fixed Time

- - - -	*Disabled by code CA:00*
XXXX	Displays Lower Time Limit for **CA:01**
XXXX	Displays Fixed Time for **CA:02**

LED Display Power

LP:00	*LED display always on*
LP:01	Display dims after 1 minute in idle mode
LP:02	Display OFF after 1 minute in idle mode

Recovery from Power Interruption

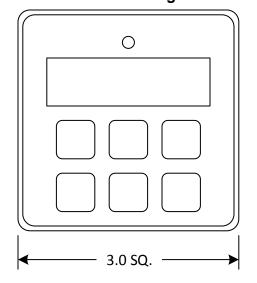|	
Pr:00	Return to power loss state, continue timing
Pr:01	Return to new ON cycle
Pr:02	Return to new OFF cycle
Pr:03	Return to power loss state, in hold mode
Pr:04	*Return to IDLE state, ready to run*

Cycle Start Mode

St:00	*Starts in ON cycle*
St:01	Starts in OFF cycle

Upper Limit Time

- - - -	*Disabled by code CA:00 or CA:02*
XXXX	Displays Upper Time Limit for **CA:01**

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Dimensions & Wiring ....

2.63 Square Minimum Panel Cutout Required

3.0 SQ.   2.50 MAX.

All terminals 0.25" Q.D.

NC
NO
COM

Output Relay

Operating Voltage
no polarity for DC

Specifications ....

Operating Voltage: 12VDC -10/+20%, 115VAC ±15%, 230VAC ±15%, 24VAC ±10%, 50/60 Hz for AC.
Operating Current: See Chart
Timing Accuracy: ±0.5%
Storage: All information stored in nonvolatile memory, 10 year life minimum.
Output Relay: 20A SPDT contacts, see chart for ratings.
LED Display: 0.56" tall high brightness red display.
Beeper: Integral beeper used to indicate button presses.
Operating Temperature: 0°C to 70°C.
Mounting: 2.63 sq. cutout accepts timer which is secured with supplied bracket & nut. Mounting nut tightened to 3 inch pounds max
Wiring: 18GA wires for power, 0.25" QD terminals on relay.

Safety: The 4980 is identical in construction to the Artisan Model 4970 except for 3 additional buttons and software The 4970 is UL Listed in file E47858: Appliance Controls ATNZ2 (US), ATNZ8 (Can).

Data Sheet Revision Date: January 12, 2016

Operating Current (mA)			
	Idle	**Timing**	**Standby**
12V DC	55	135	20
115V AC	22	30	19
230V AC	10	15	8.0
24V AC	105	150	95

Ordering ....

Model	-	Voltage
4980		**-1** = 12V DC
		-2 = 115V AC
		-3 = 230V AC
		-4 = 24V AC

Output Contact Ratings		
	NO Contacts	**NC Contacts**
Resistive Inductive	20A @ 125/240VAC, 30VDC 6A @ 277VAC	10A @ 125/240VAC, 30VDC 3A @ 277VAC
Motor	2HP @ 240VAC 1HP @ 125VAC	½HP @ 240VAC ¼HP @ 125VAC
LRA/FLA	60A LRA @ 240VAC 20A FLA @ 240VAC	33A LRA @ 240VAC 10A FLA @ 240VAC
Ballast	6A @ 125/277VAC	3A @ 125/277VAC

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