

## GPS Based Synchronized Interrupter Timer

### OVERVIEW

The ASHE AC-82G is a GPS based current interrupting timer which is used for coordinating the simultaneous on-off switching in cathodic-protection Rectifiers. It's precision timing accuracy is ensured and maintained by continuous synchronization with the Atomic Clock by communication with satellite over GPS.

The unit is an On/Off timer with Real Time Clock, which is synchronized through GPS. Functions of the timer are controlled by a real time clock. It is a specially designed Timer for carrying out On/Off CP surveys using the current interruption technique. This Timer switches the contactor in the CP unit On & Off to switch the output current from the unit On & Off.

The Timer has a built-in real time clock with advanced microcontroller based circuitry to provide a wide variety of programming. It has a dual line OLED display and an 8-key keypad for ease of programming and for displaying the information about various modes & time periods.

The Real Time clock in the timer can be synchronized to a GPS clock. This feature enables current interruption surveys using multiple timers with complete synchronization of start/stop and On/Off timing cycles.

The timer has facility for programming of the On & Off cycle time of DC current interruption from 1 sec to 9999 sec. The start & stop of the timing cycle is also programmable and is controlled by the built-in real time clock in the Timer. i.e., user can automatically start and stop the timer on any day, at any time. The timer always works in 'Daytime operation' mode with 'Automatic Night Sleep' feature.

Further, the instrument is manufactured using selected high-grade components which guarantee it's functionality and long operational life.



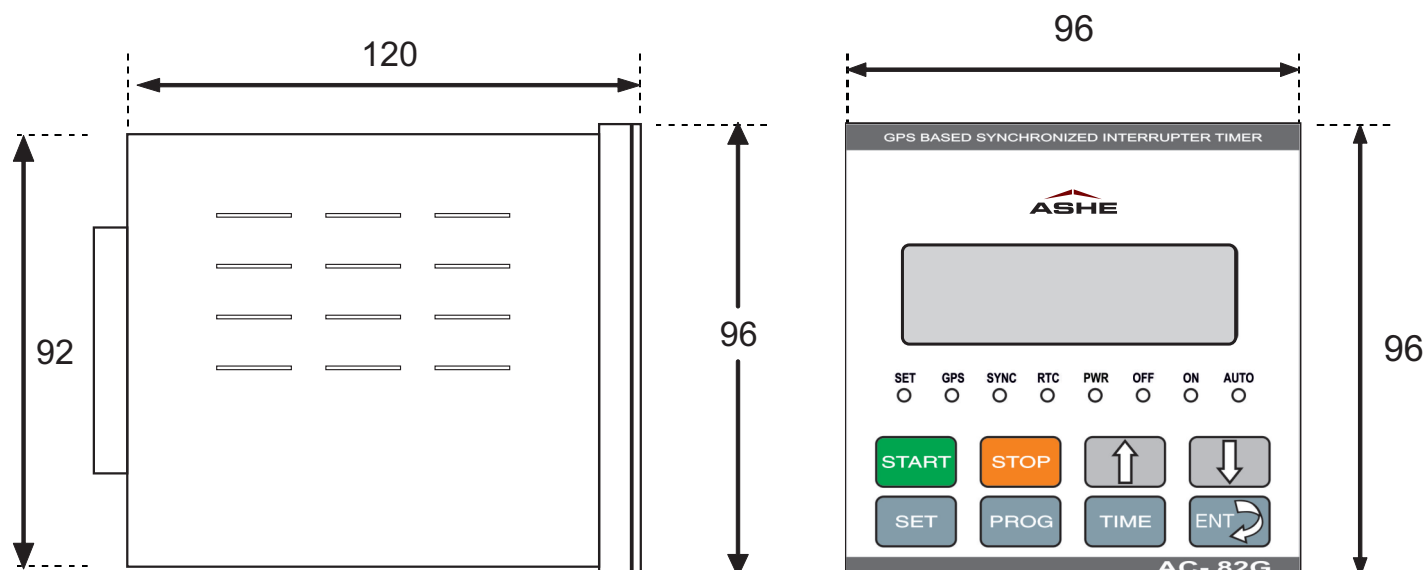
### SPECIFICATIONS

<b>Model</b>	ASHE AC-82G
<b>Type</b>	Microcontroller based GPS synchronized Current Interrupt Timer.
<b>Display</b>	16x2 OLED Display.
<b>Indications</b>	Eight LEDs for status indications.
<b>RTC Update</b>	Battery backup precision RTC by 3V battery.
<b>Control Output</b>	One control relay change-over contacts
<b>Contact Rating</b>	10 Ampere @ 230 VAC (Resistive loads).
<b>Memory</b>	Non-volatile on EEPROM.
<b>Settings</b>	By Tactile Membrane keypad on front panel.
<b>Accuracy</b>	± 2 ppm timing accuracy.
<b>Dimensions</b>	96 x 96 x 120 mm [H x W x D].
<b>Power Supply</b>	110 / 230 V AC, 50/60 Hz. (optionally 24 VDC / 12 VDC)
<b>Execution</b>	Panel mounting.
<b>Enclosure</b>	Industrial grade ABS.
<b>Weight</b>	Approximately 0.8 Kgs.
<b>Operating Temperature</b>	0 to 55°C.

### FEATURES

- Microcontroller based design
- Bright dual-line OLED display
- High timing accuracy of 2 ppm
- Eight-key Membrane Keypad
- Lithium Battery backed-up Real Time Clock
- Permanent NVRAM storage for program
- Timer synchronized to Atomic clock by GPS
- Remote Start-Stop and Reset facility
- Relay change-over contacts (potential free)
- Power failure compensation
- Greenwich Mean Time (GMT) correction all over the world
- GPS or RTC based options
- Very low power consumption and heat dissipation
- 110/230 VAC Power Supply (optionally 24 VDC / 12 VDC)
- Rugged, industrial grade ABS enclosure
- High Noise immunity
- Proven record of several thousand installations

### DIMENSIONAL DIAGRAM



### How To ORDER

GPS BASED SYNCHRONIZED CURRENT INTERRUPT TIMER		AC-82G					
Configuration and add-on options							
1	<b>CONTROL RELAY OUTPUTS</b>	No Relay Output	0				
		One Relay Output	1				
2	<b>POWER SUPPLY</b>	230 V AC, 50/60 Hz		Z			
		DC power Supply ( to be specified)		D			
3	<b>ANTENNA CABLE LENGTH</b>	3 metre				3	
		5 metre (default)				5	
		9 metre				9	
4	<b>EXECUTION</b>	Front Panel Mounting					P
		Field mounting in Weather-proof execution (Polycarbonate enclosure, IP66 Ingress protection)					W

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Designed and Manufactured by :

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