

CGI-100

GPS Synchronized Current Interrupter

ENERGY & MINING

Description

The Corrpro CGI-100 is a fully solid state GPS interrupter designed to exceed industry requirements for a robust interrupter. This is achieved by utilizing a neoprene thermoplastic gasket within a die-cast aluminum enclosure. The CGI-100 combines advanced microprocessor/semiconductor technology and quality components to achieve an advanced “warm to the touch” enclosure while interrupting up to 100A of current for the Cathodic Protection Industry.

All information is displayed on a rugged Vacuum Fluorescent Display which outperforms any LCD display for operating temperature extremes. The VFD display shows the operating mode, on/off times, GPS antenna status, daylight savings time status, start on/off times/status, heatsink temperature and the current local time. The CGI-100 display also shows a unique countdown timer so that the operator is fully aware of where the CGI-100 is within the timing cycle.

All programming is done via the keypad or a secure Bluetooth connection from just about any Bluetooth enabled PC (USB Bluetooth dongle also available) and the included software. This also allows the CGI-100 to be installed anywhere within the rectifier in any orientation by utilizing the unique magnetic mounting feet and allows the parameters to be altered without re-opening the rectifier enclosure.

The CGI-100 is powered from the rectifier output or the AC secondary taps from the rectifier (16 to 40 volts AC/DC), also the CGI-100 can be powered from the included wall adapter allowing the CGI-100 to be powered from any 115VAC plug. External battery packs are available for the rare situation when the CGI can't be powered by any of the sources above. The CGI-100 is designed to interrupt only DC currents, for AC current interruption the optional 100A relay module can be connected directly to the CGI-100. Both the solid state and the relay module will interrupt simultaneously, thereby allowing the possibility of interrupting two closely placed rectifiers.

There are 3 modes of operation; GPS synchronized, AC line synchronized for WFA/CIS/timed modes and a non-synchronized timed mode utilizing an on-board crystal oscillator. When using the CGI-100 in a non-GPS synchronized mode of operation, the interruption cycle will start immediately regardless of the programmed start/stop times and will interrupt continuously, this allows the CGI-100 to act as a standard interrupter; however when the GPS antenna is connected and a valid time has been acquired the CGI-100 will obey the programmed start/stop times. Using the Master/Slave synchronization feature, multiple CGI-100's can be synchronized using their internal timers without the need for GPS.



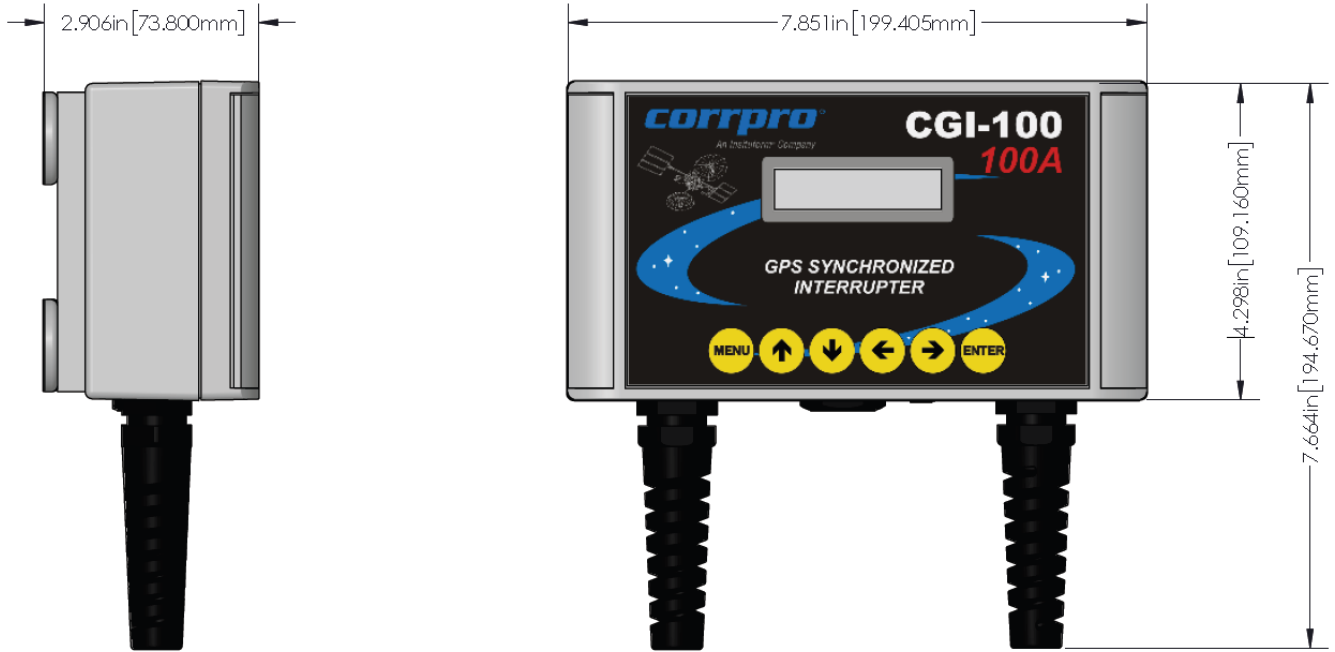
Features

- Robust compact die-cast aluminum enclosure
- Long lasting embedded membrane keypad
- Robust VFD display
- Fully solid state
- Very low temperature rise @ 100A DC
- Up to 100A (DC) @ 75VDC interruption capability
- Externally powered from 16-40 volts (AC/DC)
- Bluetooth communications
- Unique magnetic mounting base allows the unit to be mounted in just about any location/orientation
- 3-modes of operation (GPS/AC-line/non-sync)
- Operating ambient: -40 to +55°C (-40 to 131°F)
- External relay on/off compensation
- Thermal overload shutdown
- User programmable on/off times (0.1 to 500.0 seconds)
- Battery packs available

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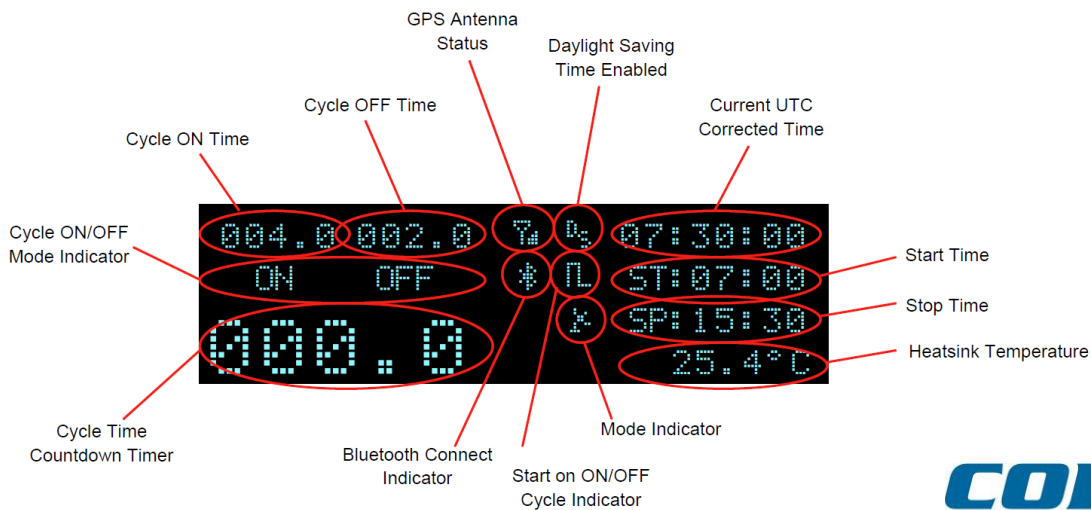
GPS Synchronized Current Interrupter

Enclosure Dimensions



Weight: Approximately 3.5 kg (7.7 pounds)

VFD Display



corrpro®

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