CP Data Logger/Interrupter Specifications

Data Acquisition
- Number of Input: 3 inputs
- Input impedance: 250 MΩ
- Input Types: Differential, Single Ended
- Input range: Programmable range ±20 V or ±40 V
- Resolution: 0.6mV
- Common Mode Range: ±60V
- Accuracy: 0.5 %
- Digitizer: 16-bit   SAR Architecture
- Bandwidth: 7.5 Hz
- Dynamic range: 96 dB
- Sample rates :   1000 samples per second

Acquisition Mode
- Manual: Controlled with start/stop switch
- Auto: Programmable Start and End time

Data Storage
- Type: Standard USB thumb drive (FAT16 or FAT32)
- Recording format:
  Binary data format exportable to three different file formats: comma-separated value (.CSV), native Microsoft Excel file (.XLS) or native Matlab data file (.MAT).

Timing
- Resolution: 1 millisecond resolution time stamped data
- Stability: GPS locked

Interface:
- Display:
  A 2.5x0.6 inches backlit and protected LCD with navigation buttons
- LED status indicators for Power, GPS, Interrupt, and Errors

Power
- Internal Rechargeable Battery: 18-hour life time
- External power:
  12 VDC (10 to 15 VDC) capable of supplying at least 250 mA
- Power Consumption: <2.25 W

Physical
- Construction :   Weather tight enclosure
- Size: 7.5 x 8.8 x 3.9 in (190.5 x 223.5 x 99 mm)
- Weight: 3.3 lbs. (1.5 kg)
- Ambient Operating Temperature: 0 to 60˚C with 0 amp switching
  0 to 40˚C with 10 amp switching at 100% duty cycle

External Relay Drive
- 12V open collector output
- Maximum drive current: 0.4 Amp
- Minimum relay drive coil resistance: 30Ω

Interrupt
- Maximum switching current: 10 amperes
- Bidirectional solid state switch
- Maximum on resistance: .025Ω
- Duty cycle: 0% to 100%