



SmartReader Plus 3

Eight-Channel AC Current, Voltage and Temperature Data Logger

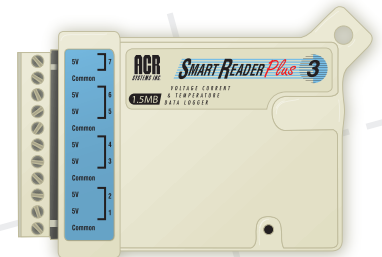
The SmartReader Plus 3 easily and accurately records AC current and voltage. Simply connect the logger to ACR's current probes (which are clamped around the power leads) and voltage transducer and begin recording. From this data, you can also determine energy consumption (kWh) with TrendReader® 2 Software.

APPLICATIONS

Determining energy consumption, monitoring 3-phase voltage and current, start-up or long-term load analysis, demand side management, electric motor maintenance scheduling, etc.

GENERAL SPECIFICATIONS

| | |
|------------------------|--|
| Size: | 107mm x 74mm x 22mm (4.2" x 2.9" x 0.9") |
| Weight: | 110 g (3.75 oz) |
| Case Material: | Noryl® Plastic |
| Battery: | 3.6 volt Lithium, 1 Amp-Hour |
| Resolution: | 12-bit (1 part in 4096) |
| Mounting: | Magnetic backing or locking eyelet |
| Clock Accuracy: | ± 2 seconds per day |
| Sampling Methods: | Continuous (First-in First-out)*, Stop When Full (Fill-then-stop) <i>*Not available with sample rates faster than eight seconds</i> |
| Operating Limits: | -40°C to 70°C (-40°F to 158°F) and 0 to 95% RH (non-condensing) |
| PC Requirements: | Windows PC with at least one free USB or serial port (depending on interface) |
| Software Requirements: | TrendReader® 2 (Compatible with Windows XP, Vista, Windows 7 and Windows 8 [32 bit & 64 bit]) |
| Memory Size: | 32 KB (capable of storing up to 21,500 readings) <i>(3 models available)</i> 128KB (capable of storing up to 87,000 readings) 1.5MB (capable of storing up to 1,048,000 readings) |
| Sampling Rates: | User selectable rates from 25 per second to every eight hours (BP-101 battery pack or PS-201 power supply required for sampling rates faster than eight seconds) |
| Number of Channels: | Eight (one for internal temperature and seven 0-5V DC inputs for use with ACR's CT-253 current transducers and single phase / 3 phase voltage transducers) |



SENSOR SPECIFICATIONS

Internal Temperature Sensor

| | |
|-------------|---|
| Type: | NTC Thermistor - 10,000 Ohm @ 25°C (77°F) |
| Range: | -40°C to 70°C (-40°F to 158°F) |
| Accuracy: | ±0.2°C over the range of 0°C to 70°C (± 0.3°F over the range of 32°F to 158°F) |
| Resolution: | 0.03°C (0.05°F) @ 25°C; better than 0.07°C (0.12°F) between -25°C and 70°C (-13°F and 158°F); better than 0.13°C (0.23°F) between -40°C and -25°C (-40°F and -13°F) |

Current Sensors

CT-253 (50/60 Hz)

Range

0.5 to 250 Amps

Cat#

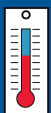
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Nominal Voltage Ranges:

5 to 10A
10 to 40A
40 to 100A
100 to 240A

Accuracy:

3.0% of reading ± 100mV
2.5% of reading ± 50mV
2.0% of reading ± 50mV
2.0% of reading



ORDERING INFORMATION

| | | | |
|--------------|--------------|--------------|--------------|
| Item | Cat#: | Item | Cat#: |
| SRP-003-32K | 01-0011 | SRP-003-1.5M | 01-0144 |
| SRP-003-128K | 01-0140 | | |

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Rev:13 - 2/27/13