SmartReader Plus 3

Product Specifications

Type: *Eight-Channel AC Current and Voltage*

GENERAL SPECIFICATIONS

Size:	107 mm x 74 mm x 22 mm (4.2" x 2.9" x 0.9")
Weight:	110 grams (3.75 ounces)
Case Material:	Noryl® plastic
Battery:	3.6 volt Lithium
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) **Not available with sample rates faster than eight seconds*
Operating Limits:	-40 to 70°C (-40 to 158°F) and 0 to 95% RH (non-condensing)
PC Requirements:	IBM PC or 100% compatible with at least one free serial port, 2 MB of RAM memory, and 2 MB of hard disk space
Software Requirements:	TrendReader® 2 *(compatible with Windows® 2000, and XP)*

Memory Size: *(3 models available)*	32KB *(capable of storing up to 21,500 readings)* 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, four for AC current and three 0-5 VDC inputs for use with ACR's voltage transducer to monitor 3-phase voltage)*

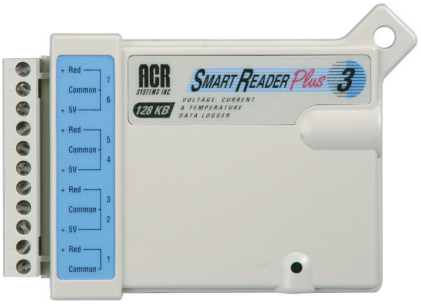
SENSOR SPECIFICATIONS

Temperature Sensor (internal)	NTC Thermistor - 10,000 Ohm @ 25˚C (77˚F)	
Range:	-40 to 70˚C (-40 to 158˚F)	
Accuracy:	+/- 0.2ºC over the range of 0 to 70ºC (+/- 0.3ºF over the range of 32 to 158ºF)	
Resolution:	0.03ºC (0.05ºF) @ 25ºC; better than 0.07ºC (0.12ºF) between -25 and 70˚C (-13º and 158ºF); better than 0.13ºC (0.23˚F) between -40 and -25˚C (-40ºF and -13ºF)	
Current Sensors	**Range**	**Cat#**
A60FL (60 Hz)	5, 25, 100, 250 Amps	35-0004
A65FL (50 Hz)	5, 25, 100, 250 Amps	35-0006
A70FL (60 Hz)	10, 50, 250, 500 Amps	35-0005
A75FL (50 Hz)	10, 50, 250, 500 Amps	35-0007

Nominal Voltage Ranges:
120V (1 phase, 60Hz)
480V (3 phase, 60Hz

Accuracy:
Current channels: +/- 3.0% of full scale *above 10% of range*
Voltage channels: +/- 0.5% of full scale

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® Standard software.



WARRANTY

Internal Battery:	**10 Years**
Data Logger:	**3 Years**

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.

Model#:	**Cat#:**
SRP-003	01-0010
SRP-003-128K	01-0114
SRP-003-1.5M	01-0143