Product Specifications

PROVEN DATA LOGGING SOLUTIONS

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) **Not available with sample rates faster than eight seconds*
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 2000 SP4, XP SP1 and Vista 32 bit)
Memory Size: *(3 models available)*	32 KB (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 0-5V DC inputs for use with ACR's voltage transducer to monitor 3-phase voltage)

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	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, 60 Hz)
480V 3 phase, 60Hz)

Accuracy:
Current channels: ±3.0% of full scale above 10% of range
Voltage channels: ±0.5% of full scale

ORDERING INFORMATION

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

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ACR 24/7/365 10 yr Battery