



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® 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® (Compatible with Windows)
Memory Size:	32 KB (capable of storing up to 21,500 readings) (3 models available) 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 A/C current clamps and 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

	Range	Cat#
CT-153	50Amps	35-0047
CT-253	250Amps	35-0048
CT-353	500Amps	35-0049
CT-453	1000Amps	35-0050

Nominal Voltage Ranges:

120V (1 phase, 60 Hz)	Accuracy:
480V 3 phase, 60Hz)	Current channels: ±3.0% of full scale above 10% of range
	Voltage channels: ±0.5% of full scale

ORDERING INFORMATION

SRP-3-32K Cat#:01-0011 **SRP-3-128K** Cat #:01-0140 **SRP-3-1.5M** Cat#:01-0144

