



SmartReader 3

Four-Channel AC Current and Temperature Data Logger

The SmartReader 3 makes easy, accurate recordings of AC current. You can use this logger with up to three external current probes for recording three-phase systems or related equipment simultaneously. The easy-to-use ACR/Amprobe CTs provide safe current readings by simply clamping around the power leads.

APPLICATIONS

Monitoring 3-phase current, startup or long term load analysis, Demand Side Management (DSM), monitoring mechanical systems, 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:	8-bit (1 part in 256)
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)
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:	32 KB (capable of storing up to 32,767 readings)
Sampling Rates:	User selectable rates from 8 seconds to 5 days in 4-second increments
Number of Channels:	Four (one internal for ambient temperature and three for AC current [Using ACR/Amprobe current probes]).



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:	0.4°C (0.7°F) @ 25°C; better than 1°C (1.8°F) between -25°C and 70°C (-13°F and 158°F); better than 2.0°C (3.6°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

Logger Accuracy ±4% of full scale above 10% of range

ORDERING INFORMATION

Item	Cat#:
SR-003 (SmartReader 3)	01-0026

