

SmartReader 3

Product Specifications

Type: Four-Channel AC Current & Temperature

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: 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 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® Standard 2 (compatible with Windows® 2000, and XP)

Memory Size: 32KB (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 for use with ACR/Amprobe current probes)

SENSOR SPECIFICATIONS

Temperature Sensor (internal)

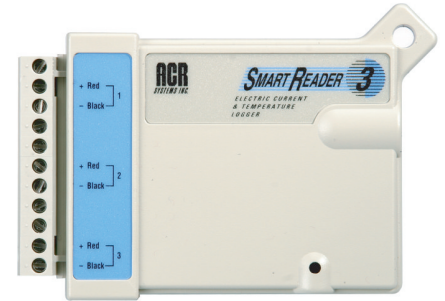
Type: NTC Thermistor - 10,000 Ohm @ 25°C (77°F)
Range: -40 to 70°C (-40 to 158°F)
Accuracy: +/- 0.2°C over the range of 0 to 70°C (+/- 0.3°F over the range of 32 to 158°F)
Resolution: 0.4°C (0.7°F) @ 25°C; better than 1°C (1.8°F) between -25 and 70°C (-13° and 158°F); better than 2.0°C (3.6°F) between -40 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

Current Transformer	Range	Cat#
CT-50-2	Up to 3000 Amps	38-0000

Logger Accuracy
 +/- 4% of full scale above 10% of range

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.



WARRANTY

Internal Battery: 10 Years
Data Logger: 3 Years

APPLICATIONS

Monitoring 3-phase current, start-up or long term load analysis, Demand Side Management (DSM), monitoring mechanical systems, electric motor maintenance scheduling, etc.

Model#: SR-003
Cat#: 01-0026