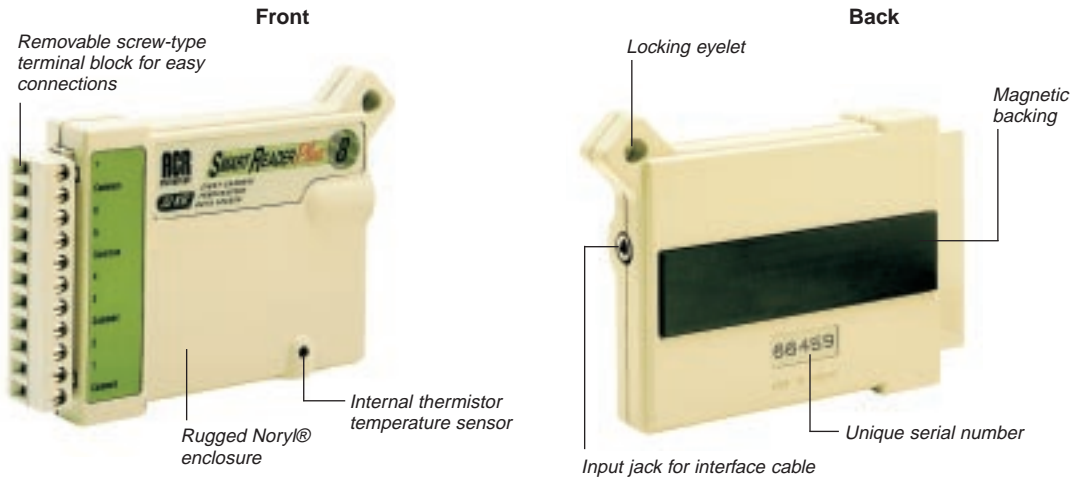


Data Loggers

Multi-channel,
Configurable,
12 Bit Data
Loggers

FEATURES

- Multiple channels
- 10-year battery life
- 32 K, 128 K or 1.5 MB memory
- Accessible remotely by modem
- Multiple loggers can be linked to form a network



PRODUCT SPECIFICATIONS

SmartReader Plus Data Loggers share many common features. For further specifications on individual models, refer to pages 7-14.

GENERAL

Size:

107 x 74 x 22 mm. (4.2" x 2.9" x 0.9").

Weight:

110 grams (3.75 ounces).

Case Material:

Noryl® Plastic.

Operating Limits:

-40°C to 70°C (-40°F to 158°F) and 0 to 95%
Relative Humidity (non-condensing).

Clock Accuracy:

+/-2 seconds per day.

Battery:

3.6 volt Lithium, 1 Amp-Hour.

Battery Life:

10 year warranty (under normal use).
Factory replaceable.

Memory Sizes:

32 K (21,500 readings). 128 K (87,000 readings) 1.5 MB
(1,000,000 readings). See specific models for availability.

Sampling Methods:

1. Continuous (First-in, First-out - not available with sample rates faster than 8 seconds).
2. Stop when full (Fill-then-stop).

Sampling Rates:

User selectable rates from 25 per second to one reading every 8 hrs. (BP-101 Battery Pack or PS-201 Power Supply required for sample rates faster than 8 seconds. See Accessories section for details).

Resolution:

12 bit (1 part in 4096).

Power Consumption:

5 to 10 microamps (continuous). Factory replaceable.

PC Requirements:

IBM PC or 100% compatible running MS Windows 3.1, '95, '98, 2000, ME or NT, with at least 2 MB RAM, 2 MB of hard drive disk space and one free serial port.

Product Approvals:

Meets Part 15 for Digital Devices of the Code of Federal Regulations of the Federal Communications Commission (FCC). Meets Class A radiated and conducted emission requirements of Section 2 of the Radio Interference Regulations of Communications Canada. IEC801-2, 3, 4 and EN55011 covering ESD, RFI Immunity, EFT/Burst and Radiated Emissions respectively for the Commission of the European Communities (CE).

Resistance to X-Rays:

Tested for protection against a 160kV dose @ 5mA for 30 seconds (150mA-sec) @ 38 inches F.F.D. (about 100 times that of an airport x-ray machine). Tested for protection against Gamma Ray (equivalent to 0.137-1.38 mega volts) IR 192 - 28 curies @ 30 second exposure source to object distance 5".

INTERNAL TEMPERATURE SENSOR (COMMON ON ALL MODELS, EXCEPT MODEL 9)

Type:

Negative Temperature Coefficient Thermistor.
10,000 ohms @ 25°C (77°F).

Tolerance (sensor only):

+/-0.2°C, over the range of 0 to 70°C (+/-0.3°F over the range of 32 to 158°F).

Range:

-40 to 70°C (-40 to 158°F).

Resolution:

0.03°C (0.05°F) at 25°C (77°F). Better than 0.07°C (0.12°F) between -25°C (-13°F) and 70°C (158°F). Better than 0.13°C (0.23°F) between -40°C (-40°F) and -25°C (-13°F).