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# SmartReader Plus

MULTI-CHANNEL ALARMING NETWORKABLE DATA LOGGERS

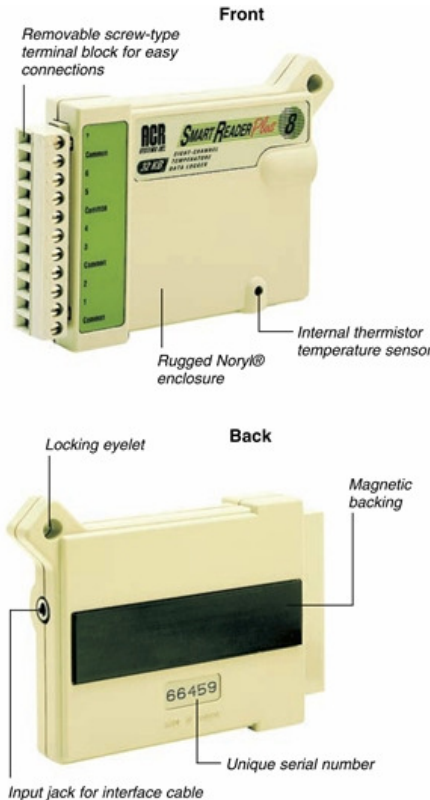
ACR SmartReader Plus data loggers are multi-channel, user configurable data loggers that monitor a variety of parameters and feature extended memory. The alarm feature alerts when thresholds are transgressed via phone or e-mail\*. These loggers are accessible remotely by modem or device server; multiple loggers can also be linked to form a network. Durability is assured with a 3-year logger warranty and 10-year battery life. It is important to note that on competitive products if the replaceable battery comes loose or dies you will not get data - lost time and effort far outweighs any price difference. The SRP uses a 12-bit successive approximation converter for ultra-low power consumption compared to delta sigma. When the sample interval is set longer than 8 seconds, the readings are averaged over the period giving a quantitative result. Software Packages are purchased separately as they can support more than one device.

## Features

- Record: Temperature, Relative Humidity, Current, Voltage, Pressure, Process Signals, Pulse
- Better than 0.025% FS Resolution - 1 part in 4096 gives more detail for a slowly changing signal
- 32kB, 128kB or 1.5MB Memory - 21,500, 87,000 and 1,050,000 Readings respectively divided among channels
- Remote access via Modem or Ethernet - local or long distance
- Ruberized conformal coating protects electronics from harsh environments
- 3-Year Warranty and 10-Year Battery - guarantees data is available at end of recording session.

## Common Specifications

Size	107 x 74 x 22mm (4.2 x 2.9 x 0.9in)
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
Power Consumption	5 to 10 microamps (continuous)
Battery Life	10-year warranty (under normal use) factory replaceable
Memory Size	32 K (21,500 readings) 128 K (87,000 readings) 1.5 MB (1,000,000 readings) See specific models for availability
Sampling Method	1. Continuous (First-in, First-out); not available with sample rates faster than 8 seconds 2. Stop when full (Fill-then-stop)
Sampling Rate	User selectable rates from 25 per second to one reading every 8 hours. (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)
PC Requirements	Windows PC with a least 256MB RAM, 250MB of hard drive space and one free serial or USB port
Software Requirements	TrendReader® 2 (compatible with Windows® XP, Vista, Windows 7 and Windows 8 - 32 bit or 64 bit)
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"



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## Model information

- SMARTREADER PLUS 1**  
2-channel temperature data logger
- SMARTREADER PLUS 2**  
4-channel relative humidity & temperature data logger
- SMARTREADER PLUS 3**  
8-channel AC Current, Voltage & Temperature Data Logger
- SMARTREADER PLUS 4**  
4-channel pressure, temperature & relative humidity data logger
- SMARTREADER PLUS 4 LPD**  
2-channel low pressure differential data logger
- SMARTREADER PLUS 5**  
3-channel temperature data logger
- SMARTREADER PLUS 6**  
8-channel temperature data logger
- SMARTREADER PLUS 7**  
8-channel process signal data logger
- SMARTREADER PLUS 8**  
8-channel temperature data logger
- SMARTREADER PLUS 9**  
2-channel pulse data logger
- SMARTREADER PLUS 10**  
4-channel temperature data logger