

SmartReader 7

Product Specifications

Type: Eight-Channel Process Signal

GENERAL SMARTREADER 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, guaranteed for ten years
Resolution: 8-bit (1 part in 256)
Mounting: Magnetic backing or lock 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% relative humidity (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 - Windows version 3.1, 95, 98, Me, NT, 2000, or XP

Memory Size: 32KB; capable of storing 32,768 readings
(Catalog #:01-0031, SR-007)
Sampling Rates: User selectable rates, from 8 seconds to 5 days in 4-second increments
Number of Channels: Eight (one for the internal temperature sensor and seven external for analog voltage and current loop signals)

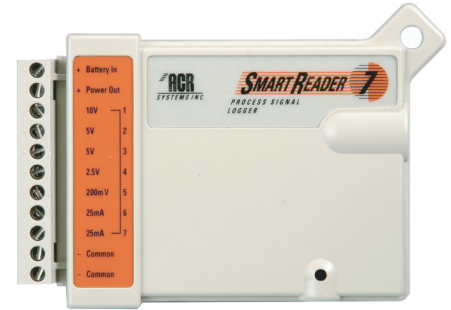
Standard Input Ranges:
 0 to 2.5 VDC, 0 to 5.0 VDC (two channels), 0 to 10.0 VDC, 0 to 25 mA DC (two channels), 0 to 200 mV DC

Optional Inputs:
 a) All external channels 0-25mA: (cat# 01-0032)
 b) All external channels 0-2.5 VDC: (cat# 01-0033)
 c) All external channels 0-5 VDC: (cat# 01-0034)
 d) All external channels 0-10 VDC: (cat# 01-0041)

Input Impedance: Greater than 1 M ohm (200mV channel)
 Greater than 1 M ohm (0 to 2.5V channel)
 20 K ohm (0 to 5.0V channel)
 40.9 K ohm (0 to 10V channel)
 100 ohms (0 to 25mA channel)

Maximum Voltage: +/- 40 volts (reverse-polarity protected)
Maximum Current: +/- 70 volts (reverse-polarity protected)
Accuracy: +/- 1% of full scale
Transducer Restriction: The use of a single power supply is recommended to avoid ground loops or use loop isolators

The SmartReader 7 is a versatile data logger for easy recording of common process signal variables. With seven input channels, the logger is ideal for monitoring (through commercially available transducers) a wide variety of measurement parameters.



WARRANTY

Internal Battery: 10 Years
Data Logger: 3 Years

APPLICATIONS

Monitoring wind speed, flow, tank level, pressure, current, voltage, power, SCADA troubleshooting, etc.

Model#:	Cat#:
SR-007	01-0031
SR-007-0-2.5V	01-0033
SR-007-0-5V	01-0034
SR-007-0-10V	01-0041
SR-007-25mA	01-0032