SmartReader 9

Product Specifications

Type: *Three-Channel Pulse*

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® 2 *(compatible with Windows® 2000 SP4, XP SP2 and Vista 32-bit)*
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:	Three *(one for internal temperature sensor and two external inputs for pulse signals or dry switch contact closures) NOTE: For "switch status" logging, see SmartReader Plus 8*

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)

External Inputs

Switch Contact Type:	Uncommitted switch or relay contacts
Logic Input Type:	Active logic signals
Ranges:	32 pulses/second 64 pulses/second 128 pulses/second
Minimum Pulse Width:	4 milliseconds
Input Voltage:	Low = 0 to 0.5 volts DC High = 4.5 to 24 volts DC
Input Impedance:	750 K Ohm

The SmartReader 9 is a versatile data logger designed for counting and recording digital pulses or switch contact closures. It has two input channels, each with three selectable frequency ranges. Data can be displayed in custom engineering units using the simple equation editor of ACRís TrendReaderÆStandard software. It also has one internal channel for recording ambient temperature.



WARRANTY

Internal Battery:	**10 Years**
Data Logger:	**3 Years**

APPLICATIONS

Food process verification, pharmaceutical storage, transportation of temperature-sensitive goods, equipment run-time, HVAC system testing and balancing, etc.

Model#:	**Cat#:**
SR-009	01-0037