SmartReader Plus 9

Product Specifications

Type: *Two-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:	12-bit (1 part in 4096)
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) **Not available with sample rates faster than eight seconds*
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: *(2 models available)*	32KB *(capable of storing up to 21,500 readings)* 128KB *(capable of storing up to 87,000 readings)*
Sampling Rates:	User selectable rates from 25 per second to once every eight hours *(BP-101 battery pack or PS-201 power supply required for sampling rates faster than eight seconds)*
Number of Channels:	Two *(two external inputs for externally-generated pulse signals and dry switch contact closures) NOTE: For "switch status" logging, see SmartReader Plus 8*

SENSOR SPECIFICATIONS

Pulse Inputs

Range:	4095 pulses/sample period
Accuracy:	+/- 1 pulse/sample period
Absolute Max.Voltage:	+24/-22 volts DC
Input Impedance:	> 1.0 M for Vin < 5V > 4.0 K for Vin > 5V
Min. Pulse Width 50% Duty Cycle:	Slow input: 2 milliseconds Fast input: 10 microseconds

Switch Inputs

Input Type:	Uncommitted "dry" contacts (relay or switch)
Excitation:	5 microamps contact current 3.6 volts open circuit

Voltage Input

Input Type:	Active logic signals
Input Voltage:	Low: 0 to 0.5 volts DC High: 4.5 to 24 volts DC
Maximum Frequency	100 KHz

The SmartReader Plus 9 is a versatile data logger designed for easy counting and recording of switch contact closures and voltage pulses. It has two pulse/contact channels.



WARRANTY

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

APPLICATIONS

Monitoring fluid and air flow, energy use, wind speed, shaft RPM and rainfall, etc.

Model#:	**Cat#:**
SRP-009	01-0016
SRP-009-128K	01-0130