

# SmartReader Plus 9

## Product Specifications

**Type:** Two-Channel Pulse

### GENERAL SPECIFICATIONS

<b>Size:</b>	107 mm x 74 mm x 22 mm (4.2" x 2.9" x 0.9")
<b>Weight:</b>	110 grams (3.75 ounces)
<b>Case Material:</b>	Noryl® plastic
<b>Battery:</b>	3.6 volt Lithium
<b>Resolution:</b>	12-bit (1 part in 4096)
<b>Mounting:</b>	Magnetic backing or locking eyelet
<b>Clock Accuracy:</b>	+/- 2 seconds per day
<b>Sampling Methods:</b>	Continuous (First-in, First-out)*, Stop When Full (Fill-then-stop) <i>*Not available with sample rates faster than eight seconds</i>
<b>Operating Limits:</b>	-40 to 70°C (-40 to 158°F) and 0 to 95% RH (non-condensing)
<b>PC Requirements:</b>	IBM PC or 100% compatible with at least one free serial port, 2 MB of RAM memory, and 2 MB of hard disk space
<b>Software Requirements:</b>	TrendReader® Standard (compatible with Windows® 3.1, '95, '98, 2000, Me, NT and XP)

<b>Memory Size:</b>	32KB (capable of storing up to 21,500 readings) <i>(2 models available)</i>
<b>Sampling Rates:</b>	128KB (capable of storing up to 87,000 readings)
	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)
<b>Number of Channels:</b>	Two (two external inputs for externally-generated pulse signals and dry switch contact closures)

### 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

<b>Internal Battery:</b>	<b>10 Years</b>
<b>Data Logger:</b>	<b>3 Years</b>

### 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