

LOGGERS Product Specifications

PROVEN DATA LOGGING SOLUTIONS



ACR SMART PEADER Plus

SmartReader Plus 9

Two-Channel Pulse Data Logger

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.

APPLICATIONS

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

GENERAL SPECIFICATIONS

Size: 107mm x 74mm x 22mm (4.2" x 2.9" x 0.9")

Weight: 110 g (3.75 oz)
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°C to 70°C (-40°F to 158°F) and 0 to 95% RH (non-condensing)

PC Requirements: Windows PC with at least one free USB or serial port (depending on interface)

Software Requirements: TrendReader® 2 (Compatible with Windows XP, Vista, Windows 7 and

Windows 8 [32 bit & 64 bit])

Memory Size: 32 KB (capable of storing up to 21,500 readings) (2 models available) 128 KB (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: Slow input: 2 milliseconds (50% Duty Cycle) 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

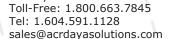
ORDERING INFORMATION

Item: Cat#: SRP-009-32K 01-0016 SRP-009-128K 01-0130



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ACR Systems Inc