

SmartReader SRX7



SRX7 is a self-powered, multi-channel data logger that can monitor and record a variety of popular Process Signals at rate of 20 samples per second to 24 hours per sample. Includes TrendReader TRX Software and Mini USB interface cable.

Typical applications include



Compressor monitoring



SCADA troubleshooting



Record current output from sources



Wind Speed



Water Flow & PH



Tank Level



Pressure



Current



Voltage



Troubleshoot Process Control applications



Ensure Environmental Regulations Compliance



Monitor a wide variety of parameters through commercially available transducers

Key Features

- Capable of storing up to 1 million readings
- LED flashing alarm lights
- Two-stage alarming (Warning & Critical)
- 16-bit resolution provides greater precision
- Can be calibrated to NIST standards to achieve the highest possible measurement accuracy
- Portable equations onboard the data logger ensure faster downloads and collaboration with less user intervention
- One-button report generation
- Wizards for Equations and programming for ease of use

Specifications

Battery	3.6V Lithium 3 year warranty
Channel 0 - Internal Temp	Resolution: 0.01°C Range: -40°C - 85°C Accuracy: $\pm 0.3^{\circ}\text{C}$ (0C to 70C) Accuracy: $\pm 1^{\circ}\text{C}$ (-40C to 85C)
Channels 1 to 3 DC Current	Input Impedance: 10 ohms Resolution: 16-bit Range: 0 – 25mA DC Accuracy: $\pm 0.5\%$ Full Scale
Channel 5 & 6 – DC Voltage	Input Impedance: ~ 1 Megohm Resolution: 16-bit Range: 0 – 5V DC Accuracy: $\pm 0.5\%$ Full Scale
Channel 4 – DC Voltage / DC Current	Resolution: 16-bit Range: 0 – 5V DC Input Impedance: ~ 1 Megohm OR Range: 0 – 25mA DC Input Impedance: 10 ohms Accuracy: $\pm 0.5\%$ Full Scale
Channel 7 – DC Voltage	Input Impedance: ~ 1 Megohm Resolution: 16-bit Range: 0 – 10V DC Accuracy: $\pm 0.5\%$ Full Scale
Clock Accuracy	± 1 seconds per day
LED Status & Alarm Lights	High & Low thresholds per channel Latch / Self-reset
Memory Size	1 Million Readings
Operating Limits	-40°C to 85°C (-40°F to 185°F) 0 to 95% RH non-condensing
Sample Rates	10s to 24 hours (normal mode) 50 ms to 10 s (powered fast mode)



Specifications

Sampling Methods

Continuous (first-in-first-out) / Stop when full
Immediate start / Delayed start - up to 2 months
Spot / Averaged Readings

Size

111 mm (4 3/8") x 74mm (2 15/16") x 27 mm (1 1/16")

Status Indicator

Flash rate: 10 seconds
Green: logging
Blue: delayed start
Yellow: alarm warning
Red: critical alarm
Magenta: memory full

Weight

140g (5 oz)

Alarm Connector

Alarm Connector Critical & Warning connections
Maximum 15V
Maximum 350mA
