



SmartReader 1

FEATURES

- Two channels
- Monitor and record temperature
- Option to monitor remote temperature, resistance or switch status
- Use with a variety of different temperature probes:
 - General purpose
 - High temperature
 - Low temperature
 - Waterproof temperature
 - Oven temperature
 - Skin surface temperature
 - Pipe surface temperature

Two-Channel Temperature (Thermistor) Data Logger

The SmartReader 1 data logger is a simple and easy-to-use data logger for monitoring and recording temperature. Quick and easy to set up, it works right out of the box, logging temperature readings from its internal, precision-calibrated temperature sensor. For added versatility, use the extra channel to record temperature (with an ACR thermistor probe), resistance or switch status.



PRODUCT SPECIFICATIONS

No. of Channels:

- Two - One for ambient temperature
- One for temperature (with thermistor probe), resistance, or switch status

Memory Size:

32 KB

Common Specifications:

See page 15

Software Specifications:

See page 33

Accessories:

ACR ET Series Temperature Probes or any NTC thermistor probe

Order Information

MODEL	MEMORY	CATALOG #
SR-001	32 KB	01-0024



SmartReader 2

FEATURES

- Four channels
- Monitor and record temperature and relative humidity
- Option to monitor remote temperature, RH and/or resistance
- Use with a variety of different temperature probes (see list above)
- N.I.S.T. traceable measurements
- Includes calibration certificate

Four-Channel Temperature and Relative Humidity Data Logger

The SmartReader 2 data logger has a built-in temperature sensor, a plug-in relative humidity sensor and is equipped with two extra channels to connect either ACR's temperature/RH probe or thermistor probes. The RH plug-in sensor is field replaceable so you can always be assured of continuous recording. The SmartReader 2 is excellent for monitoring "air quality" conditions.



PRODUCT SPECIFICATIONS

No. of Channels:

- Four - One for ambient temperature
- One for relative humidity (internal sensor)
- One for relative humidity (external sensor)
- One for temperature, resistance or switch status

Relative Humidity Sensor:

Capacitive thin polymer film

Range:

0 to 95% RH (non-condensing)

Accuracy:

+/- 4% RH from 10 to 90% RH (-20 to 40°C [-4 to 104°F])

Resolution:

Better than 0.4% between 25 and 60% RH at 25° C (77°F)

Response Time:

Adequate ventilation increases the response time which is approximately 5 minutes in still air

Memory Size:

32 KB

Environmental Conditions:

Like all relative humidity sensors, when exposed to contaminants and/or extreme environmental conditions,

accuracy degradation could result. For maximum long-term stability, sensor should not be exposed or subjected to organic solvents, corrosive agents (strong acids, SO₂, H₂SO₄, Cl₂, HCl, H₂S, etc.) and strong bases (compounds with PH greater than 7). Dust settling on the sensor surface will not affect sensor performance except possibly to decrease the speed of response.

Common Specifications:

See page 15

Software Specifications:

See page 33

Accessories:

ACR EH-020A Temperature & RH Probe
ACR ET Series Temperature Probe or any NTC thermistor probe

Order Information

MODEL	MEMORY	CATALOG #
SR-002	32 KB	01-0025