



SmartButton

Single Channel Temperature Data Logger

The ACR SmartButton is a miniature-sized temperature logger that is extremely low-cost and easy to use. Because of their small size and low-cost, you can purchase tens or hundreds of them for multiple-site temperature monitoring. To get you started, purchase the SmartButton Starter Pack. It includes one SmartButton, an interface cable, the SmartButton Reader software, and a mini manual. So simple and easy to use, anyone can start data logging today!



PRODUCT SPECIFICATIONS

Size:

17 mm diameter x 6 mm height (0.67" x 0.24")

Weight:

4 g (0.14 oz)

Case Material:

Stainless steel

Mounting:

Magnetic backing, plastic plate mount, or angled blue hard plastic

Operating Limits

-40 to 85°C (-40 to 185°F)

Clock Accuracy:

+/- 2 minutes per month from 0 to 45°C (32 to 113°F)

Battery:

3.0 volt Lithium

Memory Size:

2 KB (2,048 readings)

Sampling Methods:

1. Continuous (First-in, First-out)
2. Stop when full (Fill-then-stop)

Sampling Rates:

User selectable rates from 1 minute to 255 minutes

Readings:

Minimum - 2,048 @ 1 per min = 1.4 days
Maximum - 2,048 @ 255 per min = 363 days

Resolution:

8-bit (1 part in 256)

PC Requirements:

PC running Windows XP SP3, Windows Vista SP2 or Windows 7 (32bit). PC must have one free USB port.

Software Requirements:

SmartButton Reader (included with starter pack, see page 33 for details)

Accessories:

USB interface cable
Mounting accessories (magnetic backing strip, plastic plate mount, angled blue hard plastic)

INTERNAL TEMPERATURE SENSOR**Type:**

Silicon

Range:

-40° to 85°C (-40 to 185°F)

Accuracy:

+/- 1.0° C (1.8°F) from -30 to 45°C (-22 to 113°F)
+/- 1.5° C (2.7°F) from 45.5 to 85°C (114 to 158°F)
and -30 to -40°C (-22 to -40°F)

Resolution:

0.5°C (0.9°F)

Resolution:

0.4°C @ 25°C. (0.7°F @ 77°F)

Order Information

MODEL	TYPE	CATALOG #
ACRSB-SP-USB	USB interface cable	01-0182
ACRSB	SmartButton (single)	01-0180

FEATURES

- Extremely small and low cost
- Multiple-site temperature monitoring (if more than one purchased)
- Record readings up to one year
- "Plug and play" ease of use
- User configurable