

# Temperature Verification

ACR SmartButton Used for Temperature Verification



The ACR SmartButton is a miniature sized (size of 4 stacked pennies) temperature Data Logger that is low cost and easy to use. Some areas of use include: cold rooms, freezers, food trucks containers, air ducts, office spaces to monitor temperature.

Restaurants use the SmartButton to record storage temperatures of sensitive foods and ingredients. Food shipping companies use the SmartButton to verify temperature during transportation. Building and Office Managers use the SmartButton for discreet monitoring of office space temperature.

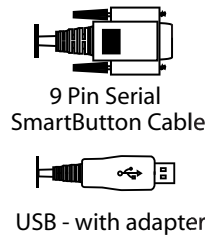
The SmartButton provides an ideal low cost, high-tech solution for the problems associated with temperature verification especially if the user is confronted with liability issues.

**The SmartButton - Another data-logging solution from ACR Systems.**

- Peace of mind is priceless
- Prove temperature readings



**Connection:**



# SmartButton

## Product Specifications

**Type:** Single-Channel Temperature

### GENERAL SPECIFICATIONS

<b>Size:</b>	17 mm diameter x 6 mm height (0.67" x 0.24")
<b>Weight:</b>	4 grams (0.14 ounces)
<b>Case Material:</b>	Stainless steel
<b>Battery:</b>	3.0 volt Lithium
<b>Resolution:</b>	8-bit (1 part in 256)
<b>Mounting:</b>	User selectable (magnetic backing, plastic plate mount, or angled blue hard plastic)
<b>Clock Accuracy:</b>	+/- 2 minutes per month from 0 to 45°C (32 to 113°F)
<b>Sampling Methods:</b>	Continuous (First-in, First-out), Stop When Full (Fill-then-stop)
<b>Operating Limits:</b>	-40°C to 85°C (-40°F to 185°F)
<b>PC Requirements:</b>	Pentium® 75 (Pentium® II or faster recommended) running Windows® 9X/NT/2000/XP with at least 16MB RAM (64MB RAM strongly recommended), color monitor, 16-bit color graphics card, printer, pointing devices and one free serial port
<b>Software Requirements:</b>	SmartButton Reader
<b>Communication:</b>	RS232 Serial/ACR SmartButton interface

<b>Memory Size:</b>	2KB (capable of storing up to 2,048 readings)
<b>Sampling Rates:</b>	User selectable rates from 1 minute to 255 minutes
<b>Start Delay:</b>	Up to 255 minutes
<b>Number of Channels:</b>	One (one internal channel for ambient temperature)
<b>Alarm Thresholds</b>	User selectable, event storage

### SENSOR SPECIFICATIONS

<b>Temperature Sensor:</b>	
Type:	Silicon
Range:	-40 to 85°C (-40 to 185°F)
Accuracy:	+/- 1.0°C from -30 to 45°C (+/- 1.8°F from -22 to 113°F) +/- 1.5°C from 45.5 to 85°C (+/- 2.7°F from 114 to 185°F) and from -30 to -40°C (+/- 2.7°F from -22 to -40°F)
Resolution:	0.5°C (0.9°F)

The ACR SmartButton is a miniature-sized temperature logger that is extremely low-cost and easy to use. Because of its 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!



**WARRANTY**  
Data Logger: 1 Year

**APPLICATIONS**  
Food processing verification, pharmaceutical storage, laboratories, transportation of temperature-sensitive goods, equipment run time, HVAC system testing and balancing, etc.

<b>Model#:</b>	<b>Cat#:</b>
SmartButton (single)	01-0180
SmartButton Starter Pack	01-0181