



ACR SmartButton Temperature Data Logger

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!

APPLICATIONS

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

GENERAL SPECIFICATIONS

Size:	17.35mm diameter x 5.89mm height (0.68" x 0.23")
Weight:	4 grams (0.14 ounces)
Case Material:	Stainless Steel
Battery:	3.0 volt Lithium – Approximate 10 year battery life using 20 min sample rate at 15°C (*See product lifetime table for more information)
Resolution:	8-bit (1 part in 256)
Mounting:	User selectable (magnetic backing, plastic plate mount, angled blue hard plastic or self-adhesive backing material)
Clock Accuracy	± 2 minutes per month from 0° to 45°C (32° to 113°F)
Sampling Methods:	Continuous (First-in, First-out) or Stop When Full (Fill-then-stop)
Operating Limits:	-40°C to 85°C (-40°F to 185°F)
PC Requirements:	Windows PC with at least one free USB Port
Software Requirements:	ACR SmartButton Reader Software (Compatible with 32 bit versions of Windows XP, Windows Vista & Windows 7 only)
Communication:	USB/ACR SmartButton Interface

TEMPERATURE SENSOR SPECIFICATIONS

Type:	Silicon
Range:	-40°C to 85°C (-40°F to 185°F)
Accuracy:	±1.0°C from -30°C to 45°C (± 1.8°F from -22°F to 113°F) ±1.5°C from 45.5°C to 85°C (± 2.7°F from 114°F to 185°F)

ORDERING INFORMATION

Item	Cat#:
SmartButton USB Starter Pack*	01-0182
SmartButton (Single)	01-0180

*Starter Pack includes:
 One SmartButton Data Logger
 SmartButton Reader Software CD
 USB interface Cable
 Quick Start Guide



WARRANTY: 1 YEAR

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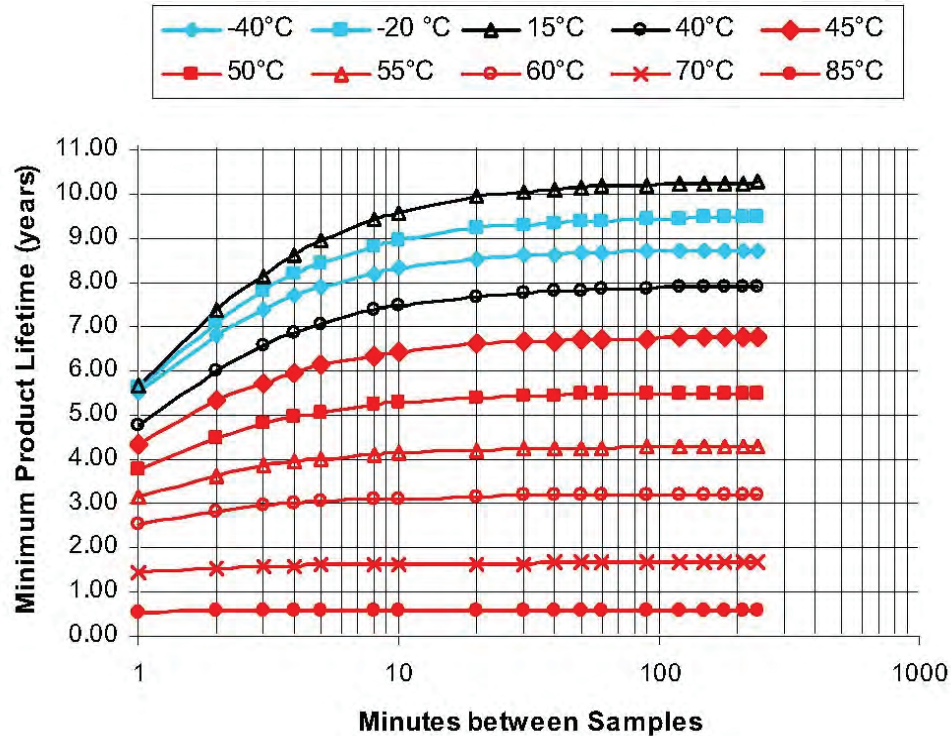
ISO 9001 Certified

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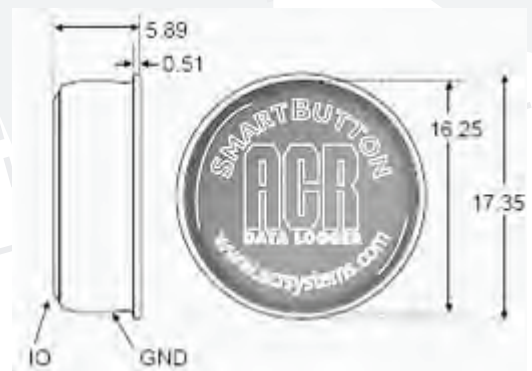


MINIMUM PRODUCT LIFETIME vs SAMPLE RATE AT DIFFERENT TEMPERATURES



SPECIAL FEATURES

- ACR SmartButton measures temperature in 0.5°C increments
- Logs up to 2048 consecutive temperature measurements in internal memory
- Programmable temperature-high and temperature-low alarm trip points
- Records up to 24 time stamps and durations when temperature leaves the range specified by the trip points (12 periods for too hot and 12 for too cold)
- Automatically wakes up and measures temperature at user-programmable intervals from 1 to 255 minutes
- Unique, factory-lasered and tested 64-bit registration number (8-bit family code + 48-bit serial number + 8-bit CRC tester) assures absolute traceability because no two parts are alike
- Chip-based data carrier compactly stores information
- SmartButton can be accessed while affixed to an object



All dimensions shown are in millimeters

