



FLUSH MOUNT BUTTONS

Brass, Stainless Steel & Plastic Platinum RTDs



The ACI Platinum Flush Mount Button Series features a stainless steel, brass or white plastic button sensor with Etched Teflon colored lead wires to differentiate the different sensor types. The three-wire “-3W” option should be ordered when using a 3-Wire temperature transmitter or sensor configuration on your building management system or PLC (Programmable Logic Controller). The purpose of the 3rd wire is to compensate for external lead wire resistance that will affect your sensor output. ACI recommends the use of 18 AWG lead wires to reduce the external lead wire resistance when using a Platinum RTD. Sensors in this series are manufactured using ACI’s proven double encapsulation process to eliminate the effects of moisture on the sensor and to increase response time using our high quality, thermally

conductive epoxy. This sensor uses a small, low profile design and should be used in applications where aesthetics is one of your primary concerns. Each unit is supplied with a mounting kit to aid in the installation process so that they can be easily hidden or blended into the environment or space. Note that if painting the sensors, be sure to coat with as little paint as possible, to limit the effect on accuracy and responsiveness of the sensor. This series can be ordered with optional NIST Certificates as referenced in the product ordering grid. Please contact ACI for more information regarding these sensors or to discuss your application in further detail. Other options may be available upon request.

Applications: Museums, Historical Buildings, Space Temperatures, Office Buildings, Schools, Retail, Remote Sensors, Commercial Spaces

PRODUCT SPECIFICATIONS

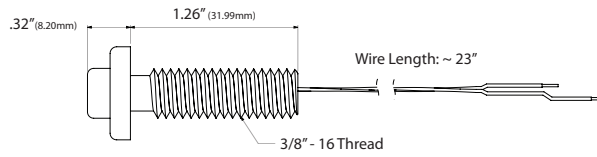
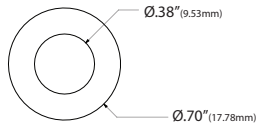
Sensor Type Sensor Curve:	Platinum RTD PTC (Positive Temperature Coefficient)
Number Sensing Points:	One
Number Wires:	A/100-2W-XXX and A/1K-2W-XXX: Two (Non-Polarity Sensitive) A/100-3W-XXX and A/1K-3W-XXX: Three (Polarity Sensitive)
Sensor Output @ 0°C (32°F):	A/100-xW-XXX: 100 Ohms nominal A/1K-xW-XXX: 1000 Ohms nominal
Sensor Accuracy @ 0°C (32°F):	+/- 0.06% Class A (Tolerance Formula: +/- °C = (0.15°C + (0.002 * t)) where t is the absolute value of Temperature above or below 0°C in °C) -40°C (-40°F): +/- 0.23°C (+/- 0.414°F) 0°C (32°F): +/- 0.15°C (+/- 0.27°F) 70°C (158°F): +/- 0.29°C (+/- 0.53°F) 200°C (392°F): +/- 0.55°C (+/- 0.99°F)
Din Standard Temperature Coefficient:	DIN EN 60751 (IEC 751) 3850 ppm / °C
Sensor Stability:	+/- 0.03% after 1000 Hours @ 300°C (572°F)
Response Time (63% Step Change):	8 Seconds nominal
Self-Heating Maximum Operating Current:	100 Ohm RTD: 7 mW/°C (Still Air) 5 mA 1K Ohm RTD: 4mW/°C (Still Air) 3 mA
Button Sensor Enclosure Material:	A/100/1K-BBS: Brass A/100/1K-SBS: 304 Stainless Steel A/100/1K-PBS: ABS Plastic
Plastic Button “-PBS” Flammability Rating:	UL94-HB
Operating Storage Temperature Range:	A/100/1K-PBS: -40 to 70°C (-40 to 158°F -40 to 85°C (-40 to 185°F) A/100/1K-BBS & A/100/1K-SBS: -40 to 200°C (-40 to 392°F) -40 to 85°C (-40 to 185°F)
Operating Humidity Range:	10 to 95% RH, non-condensing
Lead Length Conductor Size:	24” (61cm) 22 AWG (0.65mm)
Lead Wire Insulation Wire Rating:	Etched Teflon (PTFE) Colored Leads Mil Spec 16878/4 Type E)
Conductor Material:	Silver Plated Copper
Product Dimensions (Length x Diameter):	A/100/1K-PBS: 1.00” (25.4mm) x 0.750” (19mm) A/100/1K-BBS and A/100/1K-SBS: 1.20” (30.48mm) x 0.700” (17.78mm)
Product Weight:	A/100/1K-PBS: 0.06 lbs. (27.72g) A/100/1K-BBS & A/100/1K-SBS: 0.12 lbs. (54.44g)
Agency Approvals:	CE, RoHS2, WEEE



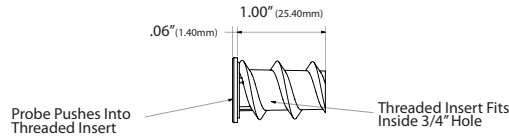
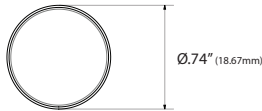


DIMENSIONAL DRAWING

Brass & Stainless Button Sensor



Plastic Button Sensor



Front View

Right View

STANDARD ORDERING

Model # Example: **A/100-2W-PBS -OR- 129782**

Model #	Item #	Description
A/100-2W-PBS	129782	100 Ohm RTD, 2-Wire, Plastic Button Sensor, 24" Leads, Brown/Brown Leads
A/100-2W-BBS	135454	100 Ohm RTD, 2-Wire, Brass Button Sensor, 24" Leads, Brown/Brown Leads
A/100-2W-SBS	119980	100 Ohm RTD, 2-Wire, Stainless Button Sensor, 24" Leads, Brown/Brown Leads
A/100-3W-PBS	132081	100 Ohm RTD, 3-Wire, Plastic Button Sensor, 24" Leads, Brown/Brown/Black Leads
A/100-3W-BBS	119984	100 Ohm RTD, 3-Wire, Brass Button Sensor, 24" Leads, Brown/Brown/Black Leads
A/100-3W-SBS	120060	100 Ohm RTD, 3-Wire, Stainless Button Sensor, 24" Leads, Brown/Brown/Black Leads
A/1K-2W-PBS	128969	1K Ohm RTD, 2-Wire, Plastic Button Sensor, 24" Leads, Black/Black Leads
A/1K-2W-BBS	120261	1K Ohm RTD, 2-Wire, Brass Button Sensor, 24" Leads, Black/Black Leads
A/1K-2W-SBS	120372	1K Ohm RTD, 2-Wire, Stainless Button Sensor, 24" Leads, Black/Black Leads
A/1K-3W-PBS	142473	1K Ohm RTD, 3-Wire, Plastic Button Sensor, 24" Leads, Black/Black/White Leads
A/1K-3W-BBS	142476	1K Ohm RTD, 3-Wire, Brass Button Sensor, 24" Leads, Black/Black/White Leads
A/1K-3W-SBS	131951	1K Ohm RTD, 3-Wire, Stainless Button Sensor, 24" Leads, Black/Black/White Leads

OPTIONAL SENSOR ORDERING

Model # Example: **A/ 100 2W PBS NIST**
A. B. C. D. E.

MODEL #

A. Sensor Series No Selection Required	A/ →	A/
B. Model Series Select One (1)	100 = 100 Ohm Platinum RTD 1K = 1K Ohm Platinum RTD	
C. Number of Wires Select One (1)	2W = Two Wires 3W = Three Wires	
D. Configuration Select One (1)	PBS = Plastic Button BBS = Brass Button SBS = Stainless Steel Button	
E. NIST Select One (1)	---- = No NIST Certification NIST = NIST Certificate (Must Specify 1, 3 or 5 Points)	

