

AcuTEMS™ WP Series

Wall Plate Temperature Sensor Datasheet



The AcuTEMS WP series wall plate temperature sensor is designed to be flush mounted on a single gang junction box and provide accurate measurement readings for various applications. The decorative brushed stainless steel is a corrosion resistant wall plate that can be installed for wash-down environments like a lab, tamper-proof applications like schools and hospitals, or projects where a low-profile non-visible enclosure is preferred. The sensor features multiple RTD and thermistor output options suitable for common BAS controllers.

Features

- Durable grade 304SS wall plate cover, excellent chemical and moisture resistance.
- Foam backing insulates sensing elements from temperature infiltration and provides watertight installation.
- 100Ω Platinum, 1KΩ Platinum/Nickel RTDs, and 10KΩ Type II/Type III, 20KΩ thermistors available.
- High accuracy $\pm 0.2^{\circ}\text{C}$ @ 25°C ($\pm 0.36^{\circ}\text{F}$ @ 77°F) for applicable models.
- Rapid response time of less than 10s, ensuring quick adjustment for building automation systems.



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Specs Subject To Change Without Notice.



Specifications

TEMPERATURE PERFORMANCE

Temperature Sensor Type	RTD or Thermistor, See Ordering Information
Thermistor Accuracy (If Applicable)	10KΩ, Type III - $\pm 0.3^{\circ}\text{C}$ @ 25°C ($\pm 0.54^{\circ}\text{F}$ @ 77°F) 10KΩ, Type II - $\pm 0.2^{\circ}\text{C}$ @ 25°C ($\pm 0.36^{\circ}\text{F}$ @ 77°F) 20KΩ - $\pm 0.2^{\circ}\text{C}$ @ 25°C ($\pm 0.36^{\circ}\text{F}$ @ 77°F)
RTD Accuracy (If Applicable)	1KΩ Platinum - $\pm 0.2^{\circ}\text{C}$ @ 25°C ($\pm 0.36^{\circ}\text{F}$ @ 77°F) 100Ω Platinum - $\pm 0.2^{\circ}\text{C}$ @ 25°C ($\pm 0.36^{\circ}\text{F}$ @ 77°F) 1KΩ Nickel - $\pm 0.5^{\circ}\text{C}$ @ 25°C ($\pm 0.9^{\circ}\text{F}$ @ 77°F)
Response Time (T63)	150~350 seconds

ENVIRONMENTAL

Operating Temperature Range	$-30\sim 70^{\circ}\text{C}$ ($-22\sim 158^{\circ}\text{F}$) @ 0~95%RH (Non-Condensing)
Storage Temperature	$-30\sim 70^{\circ}\text{C}$ ($-22\sim 158^{\circ}\text{F}$)

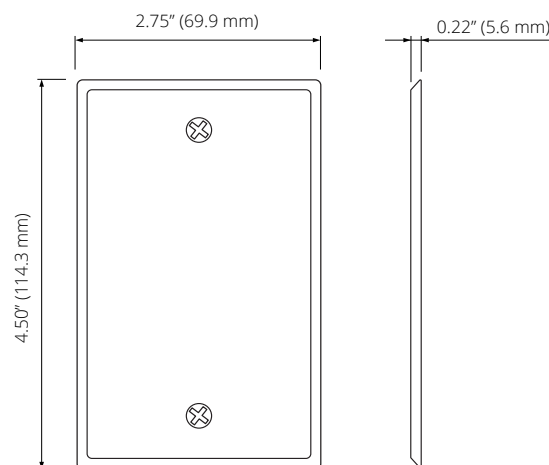
MECHANICAL

Mounting	Single Gang Junction Box or Surface Mount
Wiring Connection	200mm (7.87") Flying Leads
Weight	85g (0.19lbs)

CERTIFICATIONS/WARRANTY

Enclosure Material	304 Stainless Steel
Protection	IP30
Agency Approvals	CE
Warranty	5 Years

Dimensions



Ordering Information

Model	- Temperature Output	- Temperature Sensor
AcuTEMS-WP	A: Resistive Thermistor or RTD	01: 10KΩ, Type III Thermistor
		02: 10KΩ, Type II Thermistor
		03: 20KΩ Thermistor
		04: 1KΩ Platinum RTD
		05: 100Ω Platinum RTD
		06: 1KΩ Nickel RTD

Ordering Example: AcuTEMS-WP-A-03