

Room Air Temperature Sensors

Compact Wall-mount

Dimensions:

W 3.12" (79 mm)
H 2.09" (54 mm)
D 1.80" (46 mm)



Full Size Wall-mount

Dimensions:

W 2.75" (70 mm)
H 4.50" (114 mm)
D 1.56" (40 mm)



Explosionproof Wall-mount

Dimensions:

W 1.60" (41 mm)
H 5.55" (141 mm)
D 2.05" (52 mm)



Flush Wall-mount

Dimensions:

W 2.75" (70 mm)
H 4.50" (114 mm)
D 0.18" (5 mm)



Overview

Minco's room air sensors are available with a variety of enclosures that meet most standard and explosionproof HVAC/R installations. The sensors can be match calibrated with a Minco Tempran™ (temperature transmitter) for increased accuracy and reliability.

Room air sensors are designed for wall mounting. Choose from two plastic enclosure styles with brushed aluminum faceplates or a flushmount stainless steel model.

The full-size enclosure and flushmount fit over standard junction boxes. The full size enclosure has optional knockouts for Wiremold raceway surface wiring. Just remove knockouts with pliers. This enclosure may also include a 4-20 mA temperature transmitter; specify model AS200655.

The compact room air sensor mounts directly on drywall.

The explosionproof sensor housing is UL listed and CSA approved for Class I, Groups C and D; Class II, Groups E, F, and G; and Class III. Download Application Aid #19 for more hazardous area information and the various standards and agencies (including FM, CSA, CENELEC and ATEX) at www.minco.com.

Specifications

Temperature range:

-45.5 to 100°C (-50 to 212°F)

Temperature range (with TT115 transmitter):

Zero: -40 to 10°C (-40 to 50°F)

Span: 25 to 100°C (45 to 180°F)

Max upper temperature: 85°C (185°F)

Leadwires:

Full size and compact: AWG 22,

PTFE insulated, 4" (100 mm) long.

Explosionproof and flush mount: AWG 26,

PTFE insulated, 6" (150 mm)

inside cover.

Moisture resistance: Meets MIL-STD-202, Method 104, Test Condition B.

Transmitters: Full size sensors with 2 leads can use Tempran™ transmitter model TT115 installed within the sensor enclosure. A variety of transmitters are available for all other sensor models. Transmitters must be installed in a separate enclosure from the sensor.

Specification and order options:

Compact and full size

S472PB	Model number from table
Y	Number of leads: ▼ Y = 2 leads Z = 3 leads
4	Lead length in inches: ▼: 4
K0	Knockouts (full size only): ▼ K0= No knockouts K1= Knockouts for wiremold raceway
S472PBY4K0 = Sample part number	

Note: For replacement cover only, order part AC692KO or AC692K1 for full size, AC551 for compact.

Explosionproof and flush-mount

S100147PD	Model number from table
Y	Number of leads: Y = 2 leads Z = 3 leads
S100147PDY = Sample part number	



STOCKED PARTS AVAILABLE

Element	TCR Ω /Ω/°C	Compact room air sensors	Full size room air sensors	Explosion- proof wall-mount sensors	Flush mount room air sensors
RTDs					
Platinum 100 Ω ±0.1% at 0°C	0.00391	S405PB	S472PB		
Platinum 100 Ω ±0.1% at 0°C (Meets EN60751, Class B)	0.00385	▼ S448PD	▼ S473PD	S100147PD	S101456PD
Platinum 1000 Ω ±0.1% at 0°C	0.00385	▼ S449PF	▼ S474PF	S100148PF	S101456PF
Platinum 1000 Ω ±0.1% at 0°C	0.00375	S483PW	S489PW	S101608PW	S101456PW
Nickel-iron 1000 Ω ±0.12% at 70°F	0.00527	S403FB	S470FB		
Nickel-iron 2000 Ω ±0.12% at 70°F	0.00527	S404FC	S471FC		
HW 3000 Ω at -30.2°C	0.00262	S1000064PX	S1000063PX		
Thermistors ^{R251} / _{R125}					
Thermistor 2,252 Ω ±1% at 25°C	29.2	TS426TA	TS424TA	TS100149TA	TS101769TA
Thermistor 10,000 Ω ±1% at 25°C	23.5	TS427TB	TS425TB	TS100150TB	TS101769TB