

TEMPERATURE

PLATINUM ROOM, DUCT, OSA, AND IMMERSION RTD SENSORS AS ROOM, DUCT, OSA, AND IMMERSION SENSORS



MINCO



DESCRIPTION

The **Minco Room, Duct, Outside Air, and Immersion Temperature RTD Sensors** use a thin film platinum element for fast, accurate point measurement for energy and environmental control applications.

The **Model AS ___ S** industrial room-mount housing provides an accurate, professional appearance. This housing can either direct mount or mount directly to a standard handibox or wire mold.

The **Model AS ___ D** duct-mount sensor features a rugged, stainless steel probe mounted in a standard handibox, making installation quick and easy with self-tapping screws. The **Model AS ___ E** uses a weather resistant box

The **Model AS ___ O** outside air sensor features a non-heat conductive, solar reflecting noncorrosive shield. This configuration is completely sealed against moisture in weather conditions. The slotted shield allows air to flow freely to the stainless steel probe to provide accurate measurement. Installation is made easy with a 1/2" female threads.

The **Model AS ___ Q** immersion probes are designed with a 1/2" tapered thread for easy installation in thermowells. The **Model AS ___ P** uses a weather-resistant box.



WB-6



AS2PW080D



AS2PW055Q



AS2PW040O



AS2PW000S

FEATURES

- **Low cost, easy installation**
- **Rugged design**
- **Platinum RTDs**
- **Interchangeable sensors**
- **NIST certification available**

SPECIFICATIONS

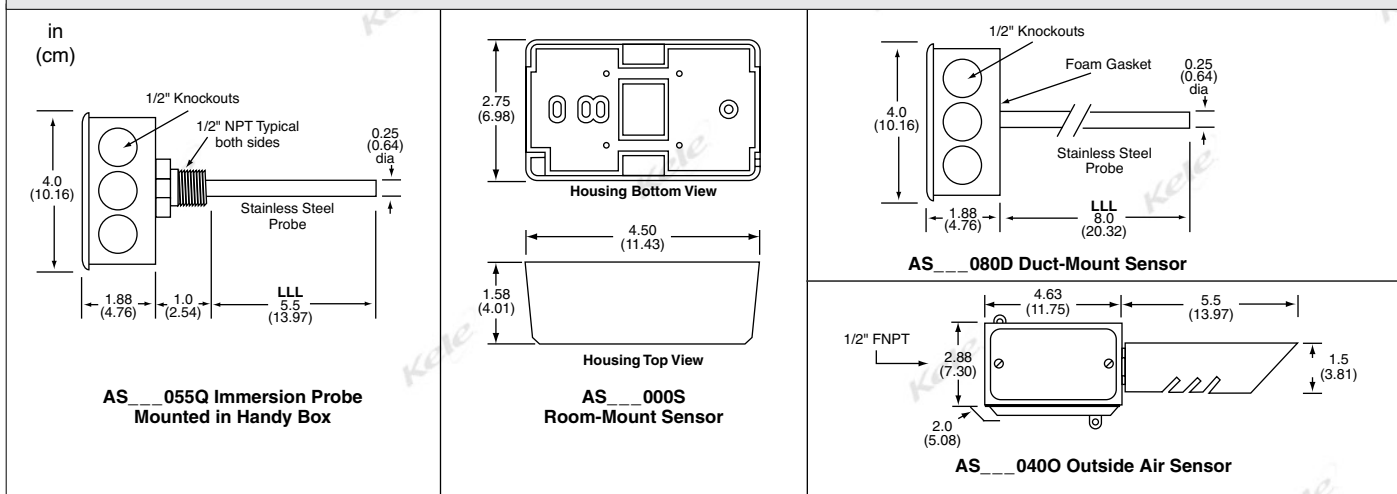
Accuracy	±0.9°F (0.5°C) or ±0.2% R ₀ trim	Probe Material	
Stability	Better than 0.05°C per year	Room	0.187" diameter aluminum
Sensor Type	1000Ω platinum two-wire 0.00375 Ω/Ω/°C, 100Ω platinum three-wire 0.00385 Ω/Ω/°C	Duct	0.25" diameter stainless steel
Temperature Range		OSA	0.187" diameter stainless steel
Room "S"	-58° to 175°F (-50° to 80°C)	Immersion	0.25" diameter stainless steel
Duct "D", "E"	-58° to 500°F (-50° to 260°C)	Enclosure	
OSA "O", "W"	-58° to 175°F (-50° to 80°C)	Room	Plastic with aluminum faceplate
Immersion "P", "Q"	-50° to 500°F (-46° to 260°C)	Duct, Immersion	Electro zinc-plated box with 1/2" knockout
Probe Length Range	2" to 48" long	OSA	White polyvinyl with weatherresistant box
		Wiring Terminations	4" 22 AWG silver-plated stranded copper, Teflon insulated
		Warranty	3 years



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DIMENSIONS



ORDERING INFORMATION

MODEL	DESCRIPTION
AS3	Assembly probe for three-wire RTDs (PD sensors only)
AS2	Assembly probe for two-wire RTDs
PD	100Ω 0.00385 Ω/Ω°C platinum curve, 6" leads, three-wire RTD
PW	1000Ω 0.00375 Ω/Ω°C platinum curve, 6" leads, two-wire RTD
LLL	Length LLL in 0.1" increments 040 = 4.0", 120 = 12.0", 0.000 for all space sensors "S"
D	Duct mount, handy-box 1/2" knockouts, LLL typically = 8.0" (080)
E	Duct mount, weatherproof box, LLL typically = 8.0" (080)
O	Outside air, weatherproof box with weather shield, LLL = 4.0" (040)
Q	Immersion, handy-box 1/2" knockouts, LLL typically = 5.5" for 6" well insertion (055)
P	Immersion, weatherproof box, LLL typically = 5.5" for 6" well insertion (055)
S	Space, indoor room, wall-mount housing, LLL = 000
W	Wall mount, outside, weatherproof box, LLL typically 4.0" (040)
000	No transmitter
801	TT-801, 3-wire fixed range, 100Ω, 385 curve, PD sensor only
807	TT-807, 2-wire fixed range, 1000Ω, PW sensor only
XX	No transmitter
EN	Range codes per Minco letter ranges (-20°/140°F) or (-29°/60°C)
S	Range codes per Minco letter ranges (0°/100°F) or (-18°/38°C)
A	Range codes per Minco letter ranges (20°/120°F) or (-7°/49°C)
BI	Range codes per Minco letter ranges (30°/130°F) or (-1°/54°C)
KK	Range codes per Minco letter ranges (30°/180°F) or (-1°/82°C)
BN	Range codes per Minco letter ranges (30°/240°F) or (-1°/116°C)
N	Range codes per Minco letter ranges (32°/122°F) or (0°/50°C)
H	Range codes per Minco letter ranges (40°/90°F) or (4°/32°C)
M	Range codes per Minco letter ranges (-50°/50°C)
C	Range codes per Minco letter ranges (0°/100°C)
BW	Range codes per Minco letter ranges (0°/250°C)
JW	Range codes per Minco letter ranges (0°/500°C)
1	No calibration data, sensor or transmitter
2	Sensor/Transmitter matched at 0°C with NIST

Sample order:

AS3PD080D000XX1:
8" duct probe with three-wire, 100Ω, 385 curve platinum RTD

AS2PW055Q000XX1:
5.5" immersion probe with two-wire, 1000Ω, 375 curve RTD

RELATED PRODUCTS

DCP-1.5-W
DCPA-1.2
T81U-XR
T91U-XR
TCC-111
TCC-12
UR
WB-6
WS-6

Power supply, 24 VAC IN to 24 VDC OUT
Power supply, 120 VAC IN to 24 VAC/24 VDC OUT
100 ohm, Type 81 4-20 mA temperature transmitter, custom rangeable
1000 ohm, Type 91 4-20 mA temperature transmitter, custom rangeable
Thermal conductive compound 111 ml tub
Thermal conductive compound tube, 12 ml
Moisture-resistant three-wire butt splice
Brass well
Stainless steel well