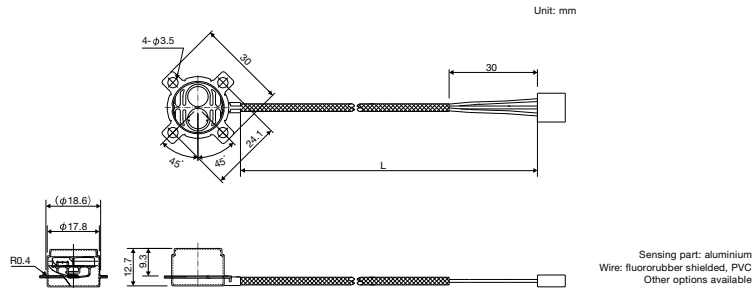
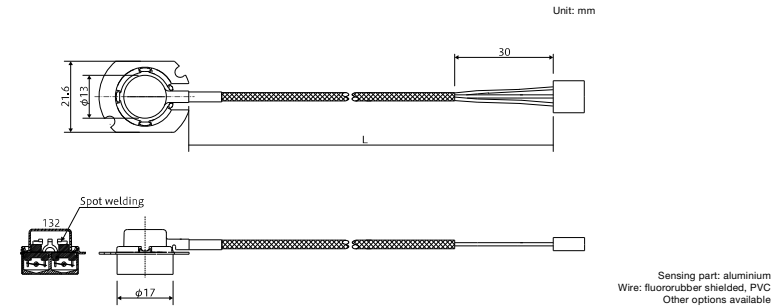
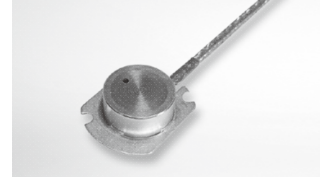


Absolute humidity sensors

SP1

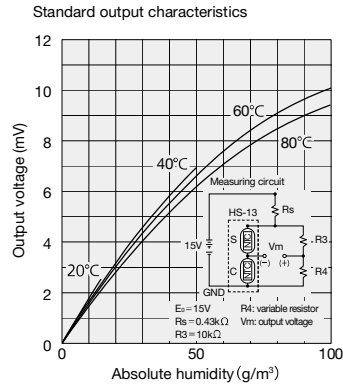


SPD1



Completely unique in the world

Features	<ul style="list-style-type: none"> ◆ Indispensable sensor for microwave ovens ◆ The only absolute humidity sensor in the world using a glass-encapsulated thermistor element ◆ Applicable up to 200°C
Applications	Exhaust air ducts for microwave ovens and tumble dryers, mist sauna rooms
Operating temperature	-5 to +200°C (sensing part except wire harness)
Withstand voltage	500VAC for 1 sec.
Insulation resistance	Min. 50MΩ at 500VDC
Zero balance	-3 to +3mV from +40 to +150°C (after resistance compensation)
R4 in standard test circuit	10kΩ ±390Ω
Output	5.3 ±1mV at +40°C, 35g/m ³
Stabilization time	8 ±5 sec. after being energized
Humidity response	12 ±5 sec. (90% response)
Sensitivity to gas/ carbon dioxide	-0.3mV (at 1000ppm)
Sensitivity to gas/ ethyl alcohol	-0.3mV (at 1000ppm)
Sensitivity to gas/ isobutane	-0.3mV (at 1000ppm)



Low cost

Features	<ul style="list-style-type: none"> ◆ Indispensable absolute humidity sensor for automatic cooking with single-function microwave ovens ◆ Cost effective solution for absolute humidity sensing ◆ Detects the difference between the inside and outside of a chamber
Applications	Exhaust air ducts for microwave ovens
Operating temperature	-5 to +100°C (sensing part except wire harness)
Withstand voltage	500VAC for 1 sec.
Insulation resistance	Min. 50MΩ at 500VDC
Zero balance	-3 to +3mV from +40 to +80°C (after resistance compensation)
R4 in standard test circuit	10kΩ ±390Ω
Output	6 ±1mV at +40°C, 35g/m ³
Stabilization time	Max. 120 sec. after being energized
Humidity response	S1: Max. 50 sec. S2: Min. 5 min.
Sensitivity to gas/ carbon dioxide	-0.3mV (at 1000ppm)
Sensitivity to gas/ ethyl alcohol	-0.3mV (at 1000ppm)
Sensitivity to gas/ isobutane	-0.3mV (at 1000ppm)

