

H7625, H7635, and H7655 Humidity and Temperature Transmitters



H7625A
H7635A



H7655A



H7625B
H7635B,C
H7655B

The H7625, H7635, and H7655 are highly accurate, stable humidity transducers designed for use with HVAC controllers such as the T7350 Thermostat, T775U Remote Humidity Controller, and W7760 Direct Digital Controllers. The Ceramic Technology humidity sensor is not affected by condensation and provides excellent long-term stability.

- Ceramic Technology overcomes the limitations of other resistance based humidity sensors that use water soluble polymer coatings.
- Ceramic Technology allows sensors to recover fully from condensation, fog, and high humidity.
- Highly accurate, repeatable, stable output with negligible hysteresis.
- Temperature compensated output.
- Zero and span trimmers, and increment/decrement recalibration feature.
- All units have selectable 4-20 mA, 0-10 Vdc, or 0-5 Vdc output.
- NIST traceable 2%, 3%, and 5% calibration, every sensor calibrated at 3 different points.
- All humidity sensors use the same enclosure as the T7770 sensor, except the H7655A, which uses the T7047-like enclosure.

Application: Humidity and Temperature

Dimensions, Approximate: 4 9/16 in. high, 3 in. wide, 7/8 in. deep
(116 mm high, 76.5 mm wide, 22 mm deep)

Voltage: 18 – 40 VDC / 18 - 28 VAC

Operating Temperature Range: -10 to 140 F (23 to 60 C)

H7625A only: 32 to 122 F (0 to 50 C)

Shipping Temperature Range: -40 to 160 F (-40 to 71 C)

Operating Humidity Range (% RH): 0 to 95% RH non-condensing

H7625A only: 0 to 100% RH

Product Number	Application Type	Accuracy (% RH)	Temperature Output	Humidity Output	Comments	Used With
H7625A010/U	Wall mount	± 2% from 20-95% RH	20K ohm NTC	4-20mA, 0-5Vdc, or 0-10Vdc selectable		Excel 10, Excel 15, T7350
H7625B2006/U	Duct mount	± 2% from 20-95% RH	20K ohm NTC	4-20mA, 0-5Vdc, or 0-10Vdc selectable	—	Excel 10, Excel 15, T7350
H7626A2020/U	Wall mount	± 2% from 20-95% RH	1097 ohm at 77F	4-20mA, 0-5Vdc, or 0-10Vdc selectable	—	Excel 10, Excel 15, T7350, T775 Series 2000
H7626B2024/U	Duct mount	± 2% from 20-95% RH	1097 ohm at 77F	4-20mA, 0-5Vdc, or 0-10Vdc selectable	—	Excel 10, Excel 15, T7350, T775 Series 2000
H7635A2012/U	Wall mount	± 3% from 20-95% RH	20K ohm NTC	4-20mA, 0-5Vdc, or 0-10Vdc selectable	—	Excel 10, Excel 15, T7350
H7635B2018/U	Duct mount	± 3% from 20-95% RH	20K ohm NTC	4-20mA, 0-5Vdc, or 0-10Vdc selectable	—	Excel 10, Excel 15, T7350
H7635C2015/U	Outdoor mount	± 3% from 20-95% RH	20K ohm NTC	4-20mA, 0-5Vdc, or 0-10Vdc selectable	—	Excel 10, Excel 15, T7350
H7636A2022/U	Wall mount	± 3% from 20-95% RH	1097 ohm at 77F	4-20mA, 0-5Vdc, or 0-10Vdc selectable	—	Excel 10, Excel 15, T7350, T775 Series 2000
H7636B2026/U	Duct mount	± 3% from 20-95% RH	1097 ohm at 77F	4-20mA, 0-5Vdc, or 0-10Vdc selectable	—	Excel 10, Excel 15, T7350, T775 Series 2000
H7655A1001/U	Wall mount	± 5% from 30-70% RH	none	0-10Vdc	Uses different enclosure (same as T7047 Sensor). Polymer capacitance humidity sensor	Excel 10, Excel 15, T7350
H7655B2014/U	Duct mount	± 5% from 25-95% RH	20K ohm NTC	4-20mA, 0-5Vdc, or 0-10Vdc selectable	—	Excel 10, Excel 15, T7350
H7656B2029/U	Duct mount	± 5% from 25-95% RH	1097 ohm at 77F	4-20mA, 0-5Vdc, or 0-10Vdc selectable	—	Excel 10, Excel 15, T7350, T775 Series 2000