



1% or 2% NIST, or Standard 2%, 3%, or 5%

FEATURES

- Thin-film capacitive sensor element recovers from 100% saturation
- Fully interchangeable element to 1%, 2%, 3%, or 5% accuracy...no calibration (1% not available on HO models)
- Replace element in the field...maintain accuracy and minimize downtime
- Duct sensor element can be serviced without disturbing conduit
- Polarity insensitive two-wire 4-20mA or 3-wire 0-5/0-10VDC versions...flexible systems compatibity
- Potted circuitry prevents costly condensate shorts
- Calibration-free interchangeable NIST traceable HS element
- HS element is microprocessor profiled with on-board nonvolatile memory
- Multi-point digital calibration to NIST standards
- NIST certification available
- Minimizes field calibration downtime

DESCRIPTION

HD & HO Series Deluxe humidity transmitters provide an ideal solution for measuring relative humidity in a wide range of conditions. All devices are equipped with a thin-film capacitive sensor that is easily replaceable in the field. These sensors are calibrated to NIST standards, with certificates available (see Ordering Information; choose "N" in NIST block). Temperature sensing options are also available. The duct mounted HD is encased in a die cast metal housing for extra strength. The outdoor HO housing is completely weather proof – the most rugged sensor available. All Deluxe HD and HO models come with a standard five-year warranty.[†]

SPECIFICATIONS

INPUT POWER	
Voltage Model*	Class 2; 12-30VDC/24VAC, 15mA max.
mA Model	Class 2; Loop powered 12-30VDC only, 30mA max.
OUTPUT	
Voltage Model	3-wire, observe polarity
mA Model	2-wire, not polarity sensitive (clipped and capped)
HUMIDITY	
HS Element [#]	Digitally profiled thin-film capacitive (32 bit mathematics) U.S. Patent 5,844,138
Accuracy at 25°C from 10-80% RH**	HD only: ±1% at 20-40% RH in mA output mode; (multi-point calibration, NIST traceable)
(Multi-point calibra- tion, NIST traceable)	all models: 2%, 3%, or 5% (specify)
Temperature Effect, Duct Model	$\pm 0.1\%$ RH/°C above or below 25°C (typical)
Temperature Effect, Outdoor Model	4-20mA version: (0.0013x%RHx(T°C-25)); 0-5 V/0-10V versions: (0.0015x%RHx(T°C-25))- (%RHx0.0008xabs(T°C-25))
Scaling	0-100% RH
Hysteresis	1.5% typical
Linearity	Included in accuracy spec.
Reset Rate***	24 hours
Stability	$\pm 1\% @20^\circ C$ (68°F) annually, for two years
TEMPERATURE	
Optional Temp Transmitter Output HO Transmitter Accuracy	Digital, 4-20mA (clipped & capped) or 0-5V/0-10V output ±1.3°C (±2.3°F) typical;
HD Transmitter Accuracy	±0.5°C (1.0°F) typical
OPERATING ENVIRONMENT	
Operating Humidity Range	0 to 100% RH noncondensing
Operating Temp Range	-40° to 50°C (-40° to 122°F)

† All Deluxe models come with a standard five-year warranty. The HS sensing element has a 1-year warranty. The element is not a part of the 5-year product warranty.

* One side of transformer secondary is connected to signal common, so an Isolation transformer or dedicated power supply may be required.

** Specified accuracy with 24VDC supplied power with rising humidity. RTD/Thermistors are not compensated for internal heating of product.

*** Reset Rate is the time required to recover to 50% RH after exposure to 90% RH for 24 hours.

Shielded cabling is required for conformance to EMC standards. Technical information is available from factory upon request or is available on our website: www.veris.com. EMC Conformance - CE Option: Low Voltage Directive 2006/95/EC and EMC Directive 2004/108/EC.

EMC Special Note: Connect this product to a DC distribution network or an AC/DC power adaptor with proper surge protection (EN 61000-6-1 specification requirements).

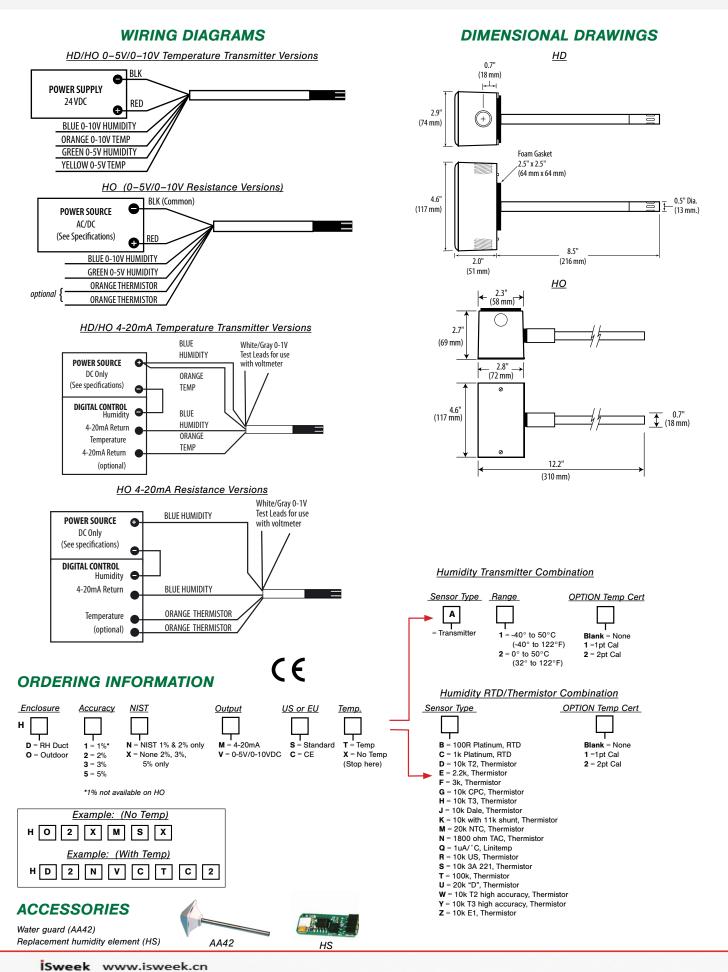
APPLICATIONS

- Controlling HVAC systems for improved comfort & energy savings
- Museums, schools, printing shops, and other locations requiring humidity control
- Facilitating compliance with ASHRAE standards for environmental control and indoor air quality

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