GREYSTONE
ACCURACY BY DESIGN

OUTSIDE HUMIDITY TRANSDUCER
RH300A Series

The RH300 series uses a highly accurate and reliable Thermoset Polymer based capacitance humidity sensor and state-of-the-art digital linearization and temperature compensated circuitry to monitor humidity levels. A 60 micron HDPE filter protects the sensor for contaminants. The hinged, gasketed, weatherproof ABS enclosure provides ease of installation and protection from the elements.

SPECIFICATION:

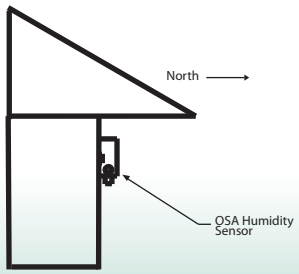
Sensor Type:.....Thermoset Polymer based Capactive
Range:.....0 to 100% RH
Accuracy:.....±2, 3, or 5% RH (5 to 95% RH)
Response:.....15 Seconds typical
Temp Dependence:....±0.05% RH/ °C
Hysteresis:.....±1.5% RH maximum
Repeatability:.....±0.5% RH typical
Linearity:.....±0.5% RH typical
Operating Range:.....-40 to 70°C (-40 to 158°F)
Power Supply:.....18 to 30 Vdc, 15 to 26 Vac
Consumption:.....22 mA maximum
Protection Circuitry:...Reverse voltage protected and output limited
Output Signal:.....4-20 mA current loop, 0-1, 0-5 or 0-10 Vdc (jumper-selectable)
Output Drive @ 24 Vdc:..550 ohms max for current output
10K ohms min for voltage output
Internal Adjustments:.Clearly marked ZERO and SPAN pots
Optional Temp.:.....RTD's or Thermistors - See ordering chart
Enclosure:.....ABS - Hinged Cover - IP64 (NEMA 3R)
Termination:.....Screw terminal block (14 20 22 AWG)

TYPICAL INSTALLATION:

For complete installation and wiring details, For complete installation and wiring details, please refer to the product installation instructions.

The RH300 should be mounted on an outside North facing wall, under the eaves which will provide protection from direct sunlight and wind.

The RH300 can be mounted directly to buildings wall face using the provided mounting holes. There are 0.85" holes for conduit connection.



PART NUMBER SELECTED

PRODUCT SELECTION INFORMATION:

MODEL	Product Description
RH300A	Outside Air Humidity Transducer

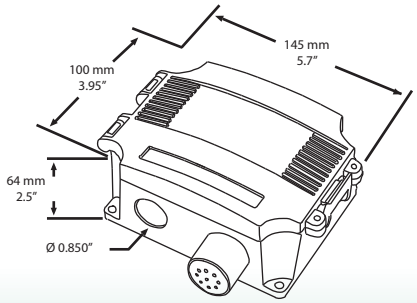
CODE	Accuracy
02	2%
03	3%
05	5%

CODE	Optional Temperature Sensor
L	PT100-100 Ω Plat. IEC 751, 385 Alpha, thin film
C	PT1000-1000 Ω Platinum, IEC 751, 385 Alpha, thin film
F	1801 Ω, NTC Thermistor, ±0.2 C
E	3000 Ω, NTC Thermistor, ±0.2 C
H	100,000 Ω, NTC Thermistor, ±0.2 C
D	10,000 Ω, Type 3, NTC Thermistor, ±0.2 C
J	10,000 Ω, Type 2, NTC Thermistor, ±0.2 C
K	20,000 Ω, NTC Thermistor, ±0.2 C
M	1000 Ω Nickel
B	10,000 Ω, Type 3, NTC Thermistor, ±0.2 C c/w 11K shunt resistor
G	2,252K Ω, NTC Thermistor, ±0.2 C

RH300A 03 -

Greystone Energy Systems, Inc. reserves the right to make design modifications without prior notice.

Dimensions:



Greystone Energy Systems, Inc. (506) 853-3057 Fax: (506) 853-6014
150 English Drive, Moncton, NB North America: 1-800-561-5611
Canada E1E 4G7 e-mail: mail@greystoneenergy.com
www.greystoneenergy.com

RoHS COMPLIANT

V.08/11
PRINTED IN CANADA