



## Features & Benefits

- Auto-detection 0-10Vdc or 4-20mA output, 3-wire only
- Fully configurable LCD Display
- Resistive temperature output option
- No jumpers or DIP-switches to select output type
- Direct thermistor option available

## Technical Overview

The RH-x-UN range offers a cost-effective single output for relative humidity measurement. These can also include a combination of familiar passive options such as temperature, set point adjustment, momentary switch and fan speed, plus an LCD display. A unique feature of the sensor is its ability to automatically detect what sort of controller input it is connected to, 4-20mA or 0-10Vdc, removing the requirement for output jumpers which can be inadvertently set incorrectly. Just connect it to the controller input and it does the rest. PCB LED indication of which output type is in operation is provided, with diagnostic LED patterns for determining faults.

## Specification

|                              |                                           |
|------------------------------|-------------------------------------------|
| <b>Accuracy (typical)</b>    | $\pm 3\%$ (20 to 80% RH)                  |
| <b>Active outputs</b>        | 0-10Vdc or 4-20mA (3-wire) self-detecting |
| <b>Duct probe dimensions</b> | 210 x 20mm dia.                           |
| <b>Environmental housing</b> | -30 to 60°C, 0 to 95% RH non-condensing   |
| <b>Environmental media</b>   | -10 to 50°C                               |
| <b>Gross Weight (kg)</b>     | 1.14                                      |
| <b>Housing dimensions</b>    | 125 x 105 x 85mm                          |
| <b>Other protection</b>      | IP65                                      |
| <b>Output range</b>          | 0 to 100% Relative Humidity               |
| <b>Passive temp. output</b>  | PTC/NTC Element: Any Sontay resistive     |
| <b>Power supply</b>          | 24Vac/dc $\pm 10\%$                       |
| <b>Shield dimensions</b>     | 200 x 118mm dia.                          |
| <b>Wall probe dimensions</b> | 90 x 20mm dia.                            |
| <b>Wall protection</b>       | IP54                                      |

## Technical Specification

|                           |                                           |
|---------------------------|-------------------------------------------|
| <b>Housing dimensions</b> | 125 x 105 x 85mm                          |
| <b>Active outputs</b>     | 0-10Vdc or 4-20mA (3-wire) self-detecting |

|                     |                                                     |
|---------------------|-----------------------------------------------------|
| <b>Output range</b> | 0 to 100% Relative Humidity                         |
| <b>Power supply</b> | 24Vac/dc $\pm 10\%$                                 |
| <b>Material</b>     | PC/GF (Halogen Free Flame Retardant, UV stabilized) |

### Related Product Codes

|                |                                       |
|----------------|---------------------------------------|
| <b>RH-O-UN</b> | Outside RH Sensor Single Analogue Out |
| <b>-T</b>      | Outside Mounted RH Sensor 3% 10K3A1   |