

MHT - Humidity Sensor

Humidity Sensor - used for controlling the humidity in refrigeration plants, reefer units, air-conditioning and ventilating plants, or as a customised OEM-product adapted to the applications requirements

This Humidity Sensor comprises a smart CMOS hybrid capacitive element which apart from relative humidity (RH) can measure temperature. The relative air humidity measured is linearised to less than 1% relative humidity and is compensated for influence of temperature

- These sensors are available with an accuracy of $\pm 2.5\%RH$
- Fast response time
- For measuring relative humidity with a 4-20 mA output signal

The sensor must be connected in a current loop with a generated voltage of 10-30vdc.

Load (RL)max = $(U_s - 8) / (0.02A) \text{ohm}$
Loop Current Output = 4 - 20mA
= 0 - 100%RH

Specification

Current Output : 4 - 20mA (Loop Powered)
Output Range : 0 - 100%RH
Operating Voltage : 10 - 30VDC
Overall Accuracy : $\pm 2.5\%RH$ @ $10\% < RH\% < 90\%$ $\pm 4\%RH$
Ambient Temp Range : -30 - 85 ° C



Global Part No.
91-9430-03

Description
Relative Humidity Sensor