

HUMIDITY AND TEMPERATURE CONTROLLER

Model - 201 RHT



Model 201 RHT is a relative humidity cum Temperature controller designed for highly accurate humidity and temperature measurement. It receives digital output from Artech RS485 transmitter. It has two four digit LED displays to indicate RH (%) and TEMPERATURE (0C). 201 RHT provides alarm indication with two relay action for RH and TEMPERATURE, Two LED for RH alarm and two for TEMPERATURE indicating low and high alarm. It provides control action using relay with indication on the front panel. Control action provides for humidifier and dehumidifier logic for RH control and heating and cooling logic for TEMPERATURE control. The 201RHT provides a Modbus RS485 output for PC communication. It also provides industrial Isolated 4 to 20 mA output for the given range.



Specifications:

- a) Measurement range : RH ; 0 To 100%
TEMPERATURE -> 0 to 100°C
- b) Accuracy : RH ; $\pm 2\%RH$
TEMP. ; $\pm 0.3^{\circ}C$
- c) Display indication : $\frac{1}{2}$ " Seven segment four digit
Upper four digits: RH%
Lower four digits: TEMP
- d) Control logic : RH control relay – humidifier, dehumidifier
RH set point -> 50% (adjustable)
Temp control relay – Heating and Cooling
Tempe set point ; 50°C (adjustable)
- e) Alarm indication : RH lower alarm ; 20% (adjustable)
RH high alarm ; 30% (adjustable)
Temp lower alarm ; 20°C (adjustable)
Temp high alarm ; 30°C (adjustable)
- f) Sensor Input : RS 485 Input from Artech Digital Transmitter
- g) Output : Modbus RS485
Two Industrial 4 to 20mA retransmission output for RH and temperature
- h) Power supply : 230V, 50Hz AC
- i) Dimensions : 96x96x110mm
- j) Panel cutout size : 92x92mm

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