



- Input : RH and T signals from sensor
- 0 / 1 / 2 / 3 / 4 setpoints corresponding to temperature or humidity
- Accuracy : $\pm 3\%$ RH, ± 0.3 °C
- User programmable
- 85~265 V AC SMPS or 20~35 V DC supply
- Sensor break indication
- 2 x isolated retransmission outputs corresponding to temperature and/or humidity

SPECIFICATIONS All specifications at ambient of 25 °C, unless specified otherwise

INPUT

Input

Basic RH and T signals from sensor

Compatible sensors

RSHT20 (General purpose / wall mount)
RSHT30 (Wall mount)
RSHT40 (Duct mount)
RSHT20, RSHT30 & RSHT40 must be ordered separately
Upto 50 meters

Distance between sensor & instrument

Range limits

0~100% RH
-20~100 °C (32 ~ 212 °F)
Also see sensor range and Fig1
 $\pm 3\%$ RH, ± 0.3 °C
0.1 or 1

Accuracy

Resolution

INDICATION

Display

Upper : 4 digit, 7 segment 0.56" (14.2 mm) green LED display
Lower : 4 digit, 7 segment 0.56" (14.2 mm) red LED display
LEDs for relay status
LEDs for communication

Status indication

OUTPUTS

No. of relays

Relay contact type

Relay contact rating

SSR drive

0/1/2/3/4 electromagnetic relays
NO-C-NC
5A / 230V AC, resistive
12 V DC drive signal for external SSR

No. of analog outputs

Retransmission output

0 / 1 / 2
Current or voltage corresponding to RH or T

Current output

4~20 mA / 0~20 mA isolated from input
600 ohms

Maximum load for current output

Voltage output

Load for voltage output

Mutual isolation between input/output/supply

0~10 V DC isolated from input
>10 Kohms
1 KV AC / 1 minute

COMMUNICATION

Port

Protocol

Slave ID

RS485
Modbus RTU
User programmable (1~256)

PROGRAMMABLE PARAMETERS

Setpoint

Unit

Resolution

0 ~ 100
°C, °F
User selectable
0.1, 1

High scale

Low scale

Digital filter

Hysteresis (ONOFF control)

Bias for RH & T

Relay logic

0 ~ 100
0 ~ 100
0 ~ 100
A (minimum) ~ F (maximum)
0.1 ~ 99.9
-10 to 10
a. Full Scale Hi b. Full Scale Lo
c. Heat d. Cool
ON, OFF
Reverse / direct
Corresponding to RH or T

Setpoint lock

Relay action

Retransmission output

OTHER

Keyboard

Enclosure construction

Tactile, 3 keys
Plug-in (circuit removable without affecting terminal wiring)
96(W) x 96(H) x 100(D)
Panel mount
92 x 92 mm
a) 85~265 V AC, 50/60 Hz
b) 20~35 V DC (optional)
3 watts maximum
0 ~ 50 °C

Dimensions (in mm)

Mounting

Panel cutout

Supply voltage

Power consumption

Operating ambient temperature

Relative humidity

Below 90%, non condensing

