

Room Temperature & Humidity Transmitter LX-RHTE-R-AC

The room humidity and temperature transmitter LX-RHTE-R-AC is intended specifically for use in indoor air quality monitoring and control systems. The state-of-the-art design combines microprocessor based linearization and temperature correction with a world class capacitance sensor, resulting in reliable and accurate measurements.

Details

LX-RHTE-R-AC is a humidity and temperature transducer for interior spaces. Excellent long-term stability and quick response time combined with temperature compensation make the product an ideal choice for HVAC applications. The room humidity and temperature sensor LX-RHTE-R offers accuracy of 3%.

- Temperature compensated humidity measurement
- Highly stable RH sensor element
- Compact enclosure
- Resistant to volatile organic compounds
- Accuracy of $\pm 3\%$
- Humidity span 0% to 100%
- AC/DC operation
- Fast response

Order Codes

LX-RHTE-R-AC
LX-RHTE-R-AC-LCD (with display)



Technical Data

Sensor Type (Humidity):	Thermoset polymer based capacitive
Accuracy:	$\pm 3\%$ RH from 5% to 95% RH
Range:	0 to 100% RH non-condensing
Hysteresis:	$\pm 3\%$ RH
Response Time:	15 seconds @ 25°C
Stability:	$\pm 1.2\%$ RH typical at 50% RH in 5 yrs.
Power Supply:	24 VDC/AC $\pm 10\%$ (non-isolated half-wave rectified)
Consumption @ 24VDC:	20mA
Output Signal Types:	4-20mA <i>Note: all output signals are scaled 0-100%RH</i> 0-10 VDC
Sensor Type (Temperature):	Pt1000 type resistance temperature detector
Operating Temperature:	0 to 50°C, 0-95%RH non-condensing
Enclosure:	White ABS, IP30, 84mm (W) x 117mm (H) x 29mm (D)
Wiring Connections:	Screw Terminals
Manufacturing Process:	ISO9001
Optional:	
Setpoint Adjustment:	From panel slidepot, 2 wire resistance output
Setpoint Range:	0k Ω to 10k Ω (standard)
Display Size:	38.1mm (W) x 16.5mm (H)
Display Range:	00.0 – 99.9 %RH, 3 digit