

RMW89 - RMW89D

Exterior Thermal / Humidity Sensor

Réf. RMW89 - RMW89D

The RMW89 Series Humidity and Temperature Transmitters accurately measure relative humidity and temperature across various building climate control applications. These transmitters are designed for straightforward installation and dependable operation, requiring minimal maintenance. The adaptable RMW89 series encompasses wall and duct transmitters, IP65-rated transmitters suitable for damp environments and transmitters equipped with weather shields for outdoor applications. It also features temperature-only transmitters with an optional display. Calculated humidity parameters, including dew point temperature, wet bulb temperature and enthalpy, are also provided. The transmitters feature no moving components; screws are secured within the housing and all connectors are distinctly labeled and easily accessible. Duct transmitters can be fitted into conduits of varying sizes, while outdoor transmitters can be directly mounted on a wall or pole without additional accessories.



CHARACTERISTICS & BENEFITS

- Reliable transmitters for humidity measurements in HVAC applications, with an RH accuracy of approximately ± 3.0 % within a measuring range of 0 to 100 % RH
- Designed for effortless installation and maintenance
- INTERCAP sensor is user-replaceable
- Flammability UL-VO
- Output parameters: relative humidity and temperature, plus optional dew point temperature, wet bulb temperature and enthalpy

TECHNICAL SPECIFICATIONS

CHARACTERISTIC	VALUE
RH - measuring range	0 to 100 % RH
RH - accuracy at $+10/+30$ °C	± 3 % RH (0 to 90 % RH)
RH - accuracy at $-20/+10$ °C and $+30/+60$ °C	± 5 % RH (0 to 90 % RH)
RH - accuracy at $-40/-20$ °C	± 7 % RH (0 to 100 % RH)
RH - stability (HVAC)	± 2 % RH for 2 years
Temperature - measuring range	-40 to $+60$ °C

Temperature - accuracy at +20 °C	±0.3 °C
Temperature - dependence	±0.01 °C/°C
Temperature sensor	Pt1000 RTD Class FO.1 IEC 60751
Computed parameters	Dew point and wet bulb temperature -40 to +60 °C; enthalpy -40 to 460 kJ/kg
Maximum wind speed / flow rate	30 m/s
Storage temperature	-40 to +60 °C
EMC compliance	EN61326-1, industrial environment
Operating temperature	-40 to +60 °C (RMW89); -5 to +60 °C (RMW89D)
Operating humidity	0 to 100 % RH (RMW89); 0 to 100 % RH without condensation (RMW89D)
Dimensions	192.5 x 88 x 72 mm (housing)