

HMD60UO/YO Outdoor Humidity and Temperature Transmitter & Solar Radiation Shield



Stable performance in demanding outside environments

The duct-mount Vaisala HUMICAP[®] Humidity and Temperature Transmitters HMD60UO and HMD60YO utilize Vaisala HUMICAP[®] Sensor. The Vaisala HUMICAP[®] Sensor is known for its excellent reliability, long-term stability, and reliable operation in humidity measurement. In addition, the sensors are insensitive to dust and most chemicals, and are not damaged by condensation. The transmitters feature two wire connections that make retrofitting, upgrading and installations easy.

Fast, on-site calibration

The accuracy of the transmitters is easy to check by using Vaisala HU-MICAP[®] Hand-Held Humidity Meter HM70. The calibration can be done in seconds with a single potentiometer – without disturbing the operation, thus ensuring accuracy and saving hours of maintenance time. Vaisala HUMICAP[®] Humidity and Temperature Transmitter HMD60YO, combined with Vaisala Solar Radiation Shield DTR503B is easy to install and ideal for outdoor applications.

Shield protects sensor

The maintenance-free, 12 plate Vaisala Solar radiation Shield DTR503B is naturally ventilated, and protects the sensors from scattered, as well as, direct solar radiation and rain.

The plates are composed of a special plastic material that offers excellent thermal characteristics and UV stabilized construction. The white outer surface reflects radiation, while the black inside absorbs accumulated heat, resulting in more accurate measurement.

Easy-to-install

The easy-to-install DTR503B is suitable for a wide range of applications. It can be mounted on a vertical pole, horizontal beam or flat surface.

Features/Benefits

- Full 0...100 %RH measurement
- Vaisala Solar Radiation Shield DTR503B provides excellent ventilation while blocking direct and reflected solar radiation, and precipitation
- True two-wire transmitter with 4 to 20 mA loop powered output: compatible with most energy management systems
- Electromagnetically compatible
- Temperature compensated
- Excellent long-term stability
- Negligible temperature coefficient
- ±2% accuracy (0...90 %RH), ±3% (90%...100 %RH)
- NEMA 4 (IP65) housing

HMD70UO/YO

Versatile alternatives to the HMD60UO/YO transmitters for outdoor applications are the HMD70UO/YO transmitters. These instruments feature selectable output signals of 0...1V, 0...5V, or 0...10V or 0...20mA. Powered by either AC or DC voltage, they are available with relative humidity only, or relative humidity and temperature sensors. They are also equipped with the radiation/precipitation shield.

Technical Data

PRICE:	
2-Wire:	Output signals
HMD60UO	RH only
HMD60YO	RH & Temp.
3-Wire:	
HMD70UO	RH only
HMD70YO	RH & Temp.

Di	m	en	S	0	ns

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better than 0.1 °C (0.18 °F)

PT 1000 IEC 751 class B

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Accuracy

Linearity

Sensor

CE