

Humidity probes with updated relative humidity range



Lumity[™] XH10P and XH20P probes now with new relative humidity limits



Emerson informs that the Lumity[™] XH10P and XH20P humidity probes have new relative humidity range. They are designed for all those applications where it is required to measure and control the humidity. Such applications are, for example, refrigeration, drying processes, air conditioning, and others. According to the model, the probe is equipped with a current or a voltage signal output (4÷20mA or 0÷10V).

The application range for relative humidity measurement is 5÷90% for XH20P model and 30÷85% for XH10P model.

The material of the filter of the probe can be brass or steel. The stainless-steel filter is available for special applications, offering the same technical and measurement performances as the version with brass filter.

1. Technical data

	Previous Models	New Models
Power supply	According to the model: Output 4÷20mA: [9 to 18Vdc] or [19 to 28Vdc] Output 0÷10Vdc: [15 to 35Vdc] or [12 to 24Vac]	According to the model: Output 4÷20mA: [9 to 18Vdc] or [19 to 28Vdc] Output 0÷10Vdc: [15 to 35Vdc] or [12 to 24Vac]
Power consumption	20mA max	20mA max
Wirings	2 or 3 wires, non-polarized	2 or 3 wires, non-polarized
Cable section	2,5mm ² max	2,5mm ² max
Output	4÷20mA or 0÷10Vdc	4÷20mA or 0÷10Vdc
Operating temperature	From 0 to 70°C, noncondensing	From 0 to 70°C, noncondensing
Storage temperature	From -30 to 85°C, noncondensing	From -30 to 85°C, noncondensing
XH10P humidity measurement	Relative humidity without condensate from 30 to 90%	Relative humidity without condensate from 30 to 85% Humidity sensor accuracy: - ±4% between 30 and 50% - ±5% between 50 and 80% - ±6% between 80 and 85%
XH20P humidity measurement	Relative humidity without condensate from 0 to 99%	Relative humidity without condensate from 5 to 90% Humidity sensor accuracy: - ±4% between 5 and 50% - ±5% between 50 and 80% - ±6% between 80 and 90%
Sensor response time	20 sec in slowly moving air	Less than 60 sec
Filter material	Standard: brass Special: stainless steel	Standard: brass Special: stainless steel

2. Availability and orders

The new probe XH10P and XH20P are now available. Please contact our sales department for further information.