

# Temperature/Humidity Probes

Temperature/humidity probes for HVAC/R with DEW POINT calculation and RS485 output with ModBUS protocol. XH50P and XH55P are the ideal solution for anti-sweat heater control; these special probes, ideal for already existent plants, allow anti-sweat heater operation according to dew point conditions of the retail space. Through the correct calibration of Dixell algorithms, it is possible to obtain a proportional change of the operating voltage range of anti-sweat heaters, optimizing its consumption and increasing the energy saving on the average used power of the anti-sweat heaters.

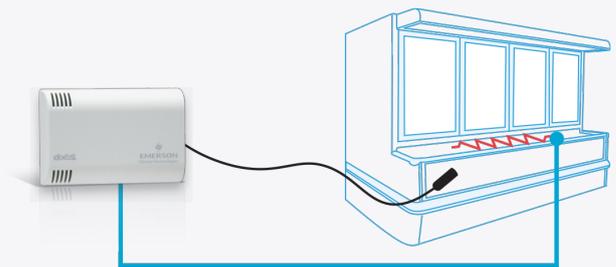
- Available in 2 versions: XH50P (without knob), XH55P (with knob)
- LED to display the device status
- Wall mounting (503 box dim. compatible)
- Self extinguishing ABS housing



The XH50P and XH55P probes, depending on the actual needs, can be used stand-alone or in centralized applications combined with XM600 controllers for multiplexed cabinets and XWEB5000 supervising system.

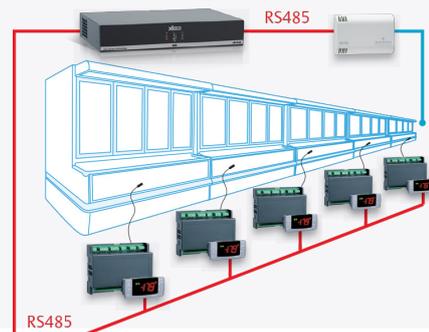
## Stand-alone application

- Based on the Dew Point estimate through the temperature and humidity measurement
- Thermostat control of anti-sweat heaters on a programmable value higher than the Dew Point
- Anti-sweat heaters control directly from XH



## Centralized management

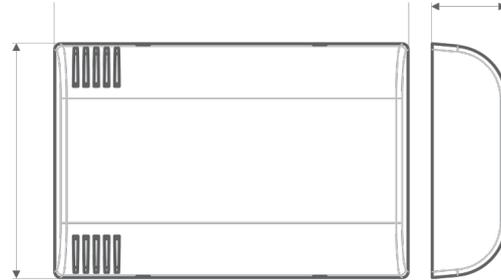
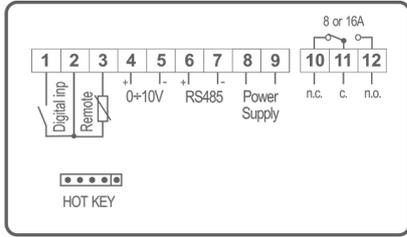
- Use of Dew Point sensors
- Management of anti-sweat heaters set point through Supervising
- Direct control of anti-sweat heaters from the counter controller
- Possibility to manage regulation parameters in groups



## How to order

XH50/55P	X	H	5	P	-	0	N	C	D	E
	C			D			E			
	Analog output			Measurement unit			Relay output			
	0 = No			C = °C			1 = 8A			
	1 = Yes			F = °F			2 = 16A			

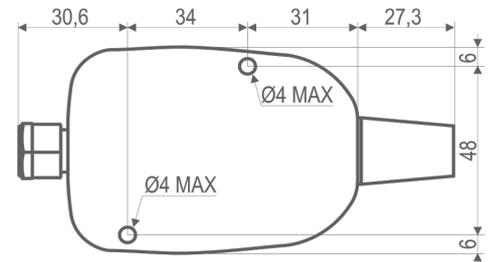
Features	XH50P	XH55P
Knob		pres
Power supply	12÷24Vac/dc - 12÷40Vdc	12÷24Vac/dc - 12÷40Vdc
Remote probe input	NTC	NTC
Digital input	free of voltage	free of voltage
Configurable relay output	8A, 16A	8A, 16A
Hot Key output	pres	pres
Serial output	RS485	RS485
Analog output	0÷10V opt	0÷10V opt



## Humidity probes

XH10P and XH20P humidity probes are suitable for all those applications where it is necessary to detect and control humidity. Such applications are: refrigeration, drying processes and more. Depending on the model, they supply a standard output current (4÷20mA) or voltage (0÷10V) signal. The high accuracy, the appropriate lead time and the sensor reliability also in cases with condensation, make these probes extremely effective.

- Wall mounting
- Power consumption: 22mA max
- Protection: IP65
- Operating range: humidity 30÷90% for XH10P and 0÷99% for XH20P



## How to order

XH10/20P	X	H	0	P	-	0	B	0	0	0
B										
Output										
0 = 4÷20mA										
1 = 4÷10Vdc										

Features	XH50P	XH55P
Knob		pres
Power supply	12÷24Vac/dc - 12÷40Vdc	12÷24Vac/dc - 12÷40Vdc
Remote probe input	NTC	NTC
Digital input	free of voltage	free of voltage
Configurable relay output	8A, 16A	8A, 16A
Hot Key output	pres	pres
Serial output	RS485	RS485
Analog output	0÷10V opt	0÷10V opt

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