

Temperature Probes

หัววัดอุณหภูมิแบบต่างๆ

Dixell™

NTC Probe

NS6	-30 ถึง 80°C	PVC	IP67	1.5 เมตร	
NS6S	-40 ถึง 110°C	Silicone	IP67	1.5 เมตร	
NG6	-40 ถึง 110°C	Thermoplastic	IP67	1.5, 2, 3 เมตร	
NG6P	-40 ถึง 110°C	Thermoplastic	IP68	1.5, 3 เมตร	
NC5.5	-30 ถึง 80°C	PVC		2 เมตร	
NT6-67	-40 ถึง 110°C	Thermoplastic	IP67	1.5 เมตร	

PTC Probe

S6	-30 ถึง 80°C	PVC	IP67	1.5, 3 เมตร	
S6.S	-50 ถึง 120°C	Silicone	IP67	1.5, 3 เมตร	
S6.SH	-50 ถึง 150°C	Silicone		1.5, 3 เมตร	
SC5.5	-30 ถึง 80°C	PVC		2 เมตร	

Product Probe

NGPOP	-40 ถึง 110°C	NTC	IP68	5 เมตร	
PMGPOP	-50 ถึง 120°C	PT1000	IP68	5 เมตร	

PTC / NTC Insert Probe

SPC10PS (PTC)	-38 ถึง 80°C	Silicone		3 เมตร	
NPC10PS (NTC)	-30 ถึง 80°C	Silicone		3 เมตร	
SPC10IS (PTC)	-50 ถึง 120°C	Silicone		3 เมตร	
NPC10IS (NTC)	-50 ถึง 120°C	Silicone		3 เมตร	

PTC1000 Probe

PMG5P	-50 ถึง 110°C	Thermoplastic	IP68	3, 3.5 เมตร	
PMT6-67	-50 ถึง 120°C	Thermoplastic	IP67	6, 9 เมตร	
PMS6L	-80 ถึง 0°C	Teflon	IP67	1.5 เมตร	

PT100 Thermoresister

PT6	-30 ถึง 105°C	PVC		2 เมตร	
PT6.S	-60 ถึง 200°C	Silicone		2 เมตร	
PT310	-70 ถึง 500°C	Silicone		2 เมตร	

Thermocouple

TK6	0 ถึง 350°C	Vetrotex			
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NTC Probe with Epoxy Coated

NE7	-30 ถึง 80°C	PVC		1.5, 3, 7 เมตร	
NEF9	-40 ถึง 105°C	Silicone		1.5, 3 เมตร	
NES	-30 ถึง 80°C	Silicone		1.5 เมตร	



PROBES

SECTION INDEX

FUNCTIONS	MODELS	
TEMPERATURE PROBE		146
NTC probes	NS6 – NS6W – NS6S – NS6SJ – NS6SW – NG6 – NG6F NG6W – NG6K – NG6P – NG6PJ – NX6P – NX6PJ NY6P – NY6PJ – NP4-67 – NT6-67 – NT6 – N6F2	146
PTC probes	S6 – S6.R – S6.S – S6.SH – SA6 – ST6 – SC5.5	147
Pt1000 probes	PMG5P – PMP4-67 – PMT6-67	148
NTC/Pt1000 product probes	NGPOP – PMGPOP	148
PTC/NTC insert probes	SPC10PS – NPC10PS – SPC10IS – NPC10IS SPC10IA – NPC10IA	148
Pt100 thermoresistors	PT6 – PT6.S – PT6.F – PT310 – PT315	149
TC thermocouples	TJ6 – TK6 – TJD215 – TJD320 – TKD215 – TKD320 CMJ – CMK	149
TEMPERATURE/HUMIDITY PROBES		150
Temperature/humidity probes	XH50P – XH55P	150
HUMIDITY PROBES		151
Humidity probes	XH10P – XH20P	151
PRESSURE PROBES		152
Pressure transducers	PP07 – PP11 – PP30 – PP50	152
Ratiometric pressure transducers	PPR15 – PPR30 – PPR45	152



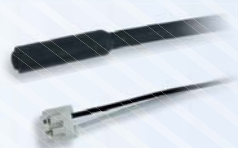
PROBES

TEMPERATURE PROBES

NTC PROBES

The probes with NTC thermistor are designed for applications where high accuracy and the short response time are important. The probes pass several tests, this is why we guarantee a very high reliability.

PROBE	DESCRIPTION	CABLE	TEMP. RANGE	
NS6	General purpose, resinated, IP67, inox steel cap "dimension Ø6x30mm"	PVC 1.5m – 3.0m	-30-80°C -22-176°F	
NS6W	General purpose, resinated, IP67, with 6,3mm faston, inox steel cap "dimension Ø6x30mm", for WING K	PVC 1.5m – 3.0m	-30-80°C -22-176°F	
NS6S	General purpose, resinated, IP67, inox steel cap "dimension Ø6x30mm"	Silicone 1.5m – 3.0m	-40-110°C -40-230°F	
NS6SJ	General purpose, resinated, IP67, 2 pole connector, inox steel cap "dimension Ø6x30mm"	Silicone 1.5m – 3.0m	-40-110°C -40-230°F	
NS6SW	General purpose, resinated, IP67, with 6,3mm faston, inox steel cap "dimension Ø6x30mm", for WING K	Silicone 1.5m – 3.0m	-40-110°C -40-230°F	
NG6	General purpose, over-molded, IP67, thermoplastic cap "dimension Ø6x15mm"	Thermoplastic 1.5m – 3.0m	-40-110°C -40-230°F	
NG6F	General purpose, over-molded, IP67, with 2,8mm faston, thermoplastic cap "dimension Ø6x15mm", for XT11S 12Vac and 24Vac/dc	Thermoplastic 1.5m – 3.0m	-40-110°C -40-230°F	
NG6W	General purpose, over-molded, IP67, with 6,3mm faston, thermoplastic cap "dimension Ø6x15mm", for WING K	Thermoplastic 1.5m – 3.0m	-40-110°C -40-230°F	
NG6K	General purpose, over-molded, IP68, Hot Key connector, thermoplastic cap "dimension Ø6x15mm"	Thermoplastic 1.5m – 3.0m	-40-110°C -40-230°F	

NG6P	General purpose, over-molded, IP68, cap "dimension Ø5x20mm"	Thermoplastic 1.5m – 3.0m	-40-110°C -40-230°F	
NG6PJ	General purpose, over-molded, 2 pole connector, cap "dimension Ø5x20mm"			
NX6P	Thermoplastic, IP68, inox steel cap "dimension Ø6x20mm"	Thermoplastic 1.5m – 3.0m	-40-110°C -40-230°F	
NX6PJ	Thermoplastic, IP68, 2 pole connector, inox steel cap "dimension Ø6x20mm"			
NY6P	Thermoplastic, IP68, inox steel cap "dimension Ø6x50mm"	Thermoplastic 1.5m – 3.0m	-40-110°C -40-230°F	
NY6PJ	Thermoplastic, IP68, 2 pole connector, inox steel cap "dimension Ø6x50mm"			
NP4-67	Pipemount fitting "Ø4-Ø30mm in diameter", IP67, over-molded, copper sensor	Thermoplastic 1.5m – 3.0m	-40-110°C -40-230°F	
NT6-67	Pipemount fitting "Ø4-Ø30mm in diameter", IP67, over-molded, thermoplastic sensor			
NT6	Pipemount fitting	PVC 1.5/2.0m	0-80°C 32-176°F	
N6F2	General purpose, resinated, IP67, with 2.8mm faston, double insulation, nylon cap "dimension Ø7x30mm", for XT11S 230Vac	PVC 1.5/2.0m	-30-105°C -22-221°F	

PTC PROBES

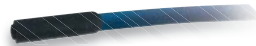
The probes with PTC thermistor are designed for both cooling and heating applications.

The temperature range is -50-150°C (-58-302°F).

PROBE	DESCRIPTION	CABLE	TEMP. RANGE	
S6	General purpose, resinated, IP67, inox steel cap "dimension Ø6x30mm"	PVC 1.5m – 3.0m	-30-80°C -22-176°F	   
S6.R	Water proof, resinated, IP67, inox steel cap "dimension Ø6x40mm"	PVC 1.5m – 3.0m	-30-80°C -22-176°F	
S6.S	Water proof, resinated, inox steel cap "dimension Ø6x40mm"	Silicone 1.5m – 3.0m	-50-120°C -58-248°F	
S6.SH	Heating applications, inox steel cap "dimension Ø6x40mm"	Silicone 1.5m – 3.0m	-50-150°C -58-302°F	
SA6	Perforated for air, inox steel cap "dimension Ø6x30mm"	PVC 1.5m – 3.0m	0-80°C 32-176°F	
ST6	Pipemount fitting	PVC 1.5m – 3.0m	0-80°C 32-176°F	
SC5.5	Probe fixed with threaded male, inox steel cap "dimension Ø6x80mm"	PVC 1.5m – 3.0m	-30-80°C -22-176°F	

Pt1000 PROBES

Pt1000 probes are suitable for all applications where the temperature is between -50-120°C (-58-248°F) and it is important to maintain precision over long distances.

PROBE	DESCRIPTION	CABLE	TEMP. RANGE	
PMG5P	Thermoplastic, resinated, IP68, cap "dimension Ø5x20mm"	Thermoplastic 1.5m - 3.0m	-50-110°C -58-230°F	
PMP4-67	Pipemount fitting "Ø4-Ø30mm in diameter", IP67, over-molded, copper sensor	Thermoplastic 1.5m - 3.0m	-50-110°C -58-230°F	
PMT6-67	Pipemount fitting "Ø4-Ø30mm in diameter", IP67, over-molded, thermoplastic sensor	Thermoplastic 1.5m	-50-120°C -58-248°F	

PRODUCT PROBE NTC/Pt1000

The product probes with NTC or Pt1000 sensors allow the simulation and display of product temperature and manage alarms according to the temperature near the product and not the air around it. Thanks to the magnets, these probes are particularly suitable for use on shelves.

PROBE	DESCRIPTION	CABLE	TEMP. RANGE	
NGPOP	NTC sensor, thermoplastic, IP68, 100x100mm	Thermoplastic 5m	-40-110°C -40-230°F	
PMGPOP	Pt1000 sensor, thermoplastic, IP68, 100x100mm	Thermoplastic 5m	-50-120°C -58-248°F	

PTC/NTC INSERT PROBES

The insert probes with PTC or NTC sensor are suitable for applications where it is important to know the core temperature of goods. They are generally used together with cooking oven or blast chiller controllers.

PROBE	DESCRIPTION	CABLE	TEMP. RANGE	
SPC10PS	PTC sensor, plastic handle, inox steel cap "dimension Ø3.5x100mm"	Silicone 3m	-38-80°C -36-176°F	
NPC10PS	NTC sensor, plastic handle, inox steel cap "dimension Ø3.5x100mm"	Silicone 3m	-30-80°C -86-176°F	
SPC10IS	PTC sensor, plastic handle, inox steel cap "dimension Ø3.5x100mm"	Silicone 3m	-50-120°C -58-248°F	
NPC10IS	NTC sensor, plastic handle, inox steel cap "dimension Ø3.5x100mm"	Silicone 3m	-50-120°C -58-248°F	
SPC10IA	PTC sensor, plastic handle, inox steel cap "dimension Ø3.5x100mm"	Silicone for use with food 3m	-50-120°C -58-248°F	
NPC10IA	NTC sensor, plastic handle, inox steel cap "dimension Ø3.5x100mm"	Silicone for use with food 3m	-50-120°C -58-248°F	

Pt100 THERMORESISTORS

Thermoresistance (RTD) probes are suitable when a high precision and low response time is necessary. The operating range of the Pt100 sensor is from -70-500°C (-94-932°F), the precision is according to standard IEC751.

PROBE	DESCRIPTION	CABLE	TEMP. RANGE	
PT6	General purpose, 3 wires, inox steel cap "dimension Ø6x100mm"	PVC 2m	-30-105°C -22-221°F	
PT6.S	Protected, 3 wires, inox steel cap "dimension Ø6x100mm"	Silicone 2m	-60-200°C -76-392°F	
PT6.F	Protected, 3 wires, inox steel cap "dimension Ø6x100mm"	Vetrotex 2m	-60-350°C -76-662°F	
PT310	Compact, with male connection, 2 wires, inox steel cap "dimension Ø3x100mm"	Silicone 2m	-70-500°C -94-932°F	
PT315	Compact, with male connection, 2 wires, inox steel cap "dimension Ø3x150mm"	Silicone 2m	-70-500°C -94-932°F	

TC THERMOCOUPLES

Thermocouple (TC) probes are suitable when a short response time and high shock resistance are necessary. The operating range of the TCJ sensor is from 0÷600°C (32÷1112°F) and the range of the TCK is from 0÷1150°C (32÷2102°F), the precision is according to standard IEC584-2.

PROBE	DESCRIPTION	TEMP. RANGE	
TJ6	General purpose, protected, Fe-CO, cap "dimension Ø6x100mm", 2.0/3.0m vetrotex cable	0-350°C 32-662°F	
TK6	General purpose, protected, Cr-Al, cap "dimension Ø6x100mm", 2.0/3.0m vetrotex cable	0-350°C 32-662°F	
TJD215	DIN connector, Fe-CO, cap "dimension Ø2x150mm"	0-600°C 32-1112°F	
TJD320	DIN connector, Fe-CO, cap "dimension Ø3x200mm"	0-600°C 32-1112°F	
TKD215	DIN connector, Cr-Al, cap "dimension Ø2x150mm"	0-1150°C 32-2102°F	
TKD320	DIN connector, Cr-Al, cap "dimension Ø3x200mm"	0-1150°C 32-2102°F	
CMJ	Compensating female connector, Fe-CO, for TJD215 and TJD320	-40-200°C -40-392°F	
CMK	Compensating female connector, Cr-Al, for TKD215 and TKD320	-40-200°C -40-392°F	

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.

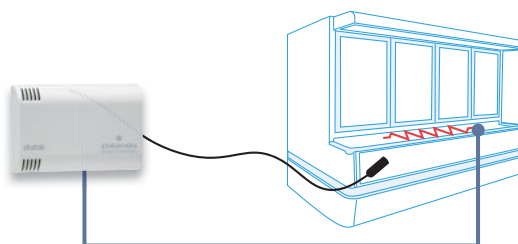
- Available in 2 versions: **XH50P** (without knob), **XH55P** (with knob)
- LED to display the device status
- Wall mounting (503 box dim. compatible)
- Self extinguishing ABS housing



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.

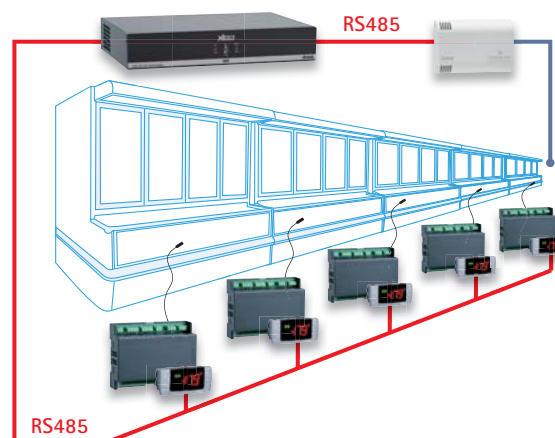
STAND-ALONE APPLICATION

- 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



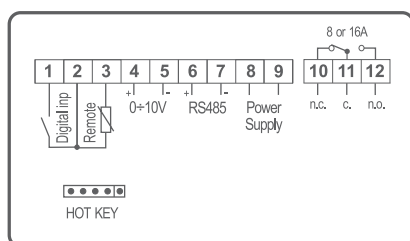
HOW to ORDER

XH50/55P

X H 5 P - O 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

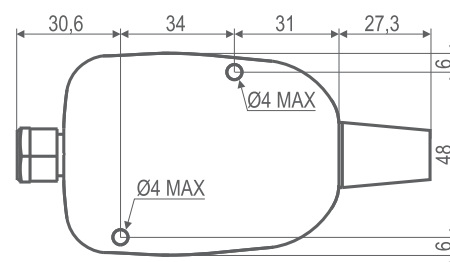
FEATURES	XH50P	XH55P
Knob		pres
Power supply	12-24Vac/dc - 12-40Vdc	12-24Vac/dc - 12-40Vdc
Remote probe input	NTC	NTC
Digital input	free of voltage	free of voltage
Configurable relay output	8A, 16A	8A, 16A
Hot Key output	pres	pres
Serial output	RS485	RS485
Analog output	0-10V opt	0-10V opt



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 XH20 P



HOW to ORDER

XH10/20P

X	H		O	P	-	O	B	O	O	O
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B

Output

0 = 4÷20mA

1 = 4÷10Vdc

FEATURES	XH10P		XH20P	
Power supply	9-18Vdc	15-35Vdc - 12-24Vac	9-18Vdc	15-35Vdc - 12-24Vac
Output	4-20mA	0-10Vdc	4-20mA	0-10Vdc
Accuracy	±5%	±5%	±3%	±3%
Operating temperature	0-60°C (32-140°F)	0-60°C (32-140°F)	0-70°C (32-158°F)	0-70°C (32-158°F)
Storage temperature	-30-85°C (22-185°F)	-30-85°C (22-185°F)	-30-85°C (22-185°F)	-30-85°C (22-185°F)
Measurement range	30-90%RH	30-90%RH	0-99%RH	0-99%RH

PRESSURE PROBES

PRESSURE TRANSDUCERS

Pressure transducers supply a standard output current signal (4-20mA). The silicon sensor is assembled in a waterproof steel housing filled with oil that optimizes stable and constant measurement with additional protection against vibrations and a duration equivalent to millions of pressure cycles. The tip of the probe allows placement in contact with ammonia and various other kinds of corrosive gases.

PP07	2 wires transducer with 4-20mA output and measurement range -0.5-7bar (male or female fitting)
PP11	2 wires transducer with 4-20mA output and measurement range -0.5-11bar (male or female fitting)
PP30	2 wires transducer with 4-20mA output and measurement range 0-30bar (male or female fitting)
PP50	2 wires transducer with 4-20mA output and measurement range 0-50bar (male or female fitting)

FEATURES

Power supply	8-28Vdc
Output	4-20mA
Protection	IP65
Operating temperature	-40-135°C (-40-275°F)
Storage temperature	-40-135°C (-40-275°F)
Accuracy	1% F.S.

RATIOMETRIC PRESSURE TRANSDUCERS

Pressure transducers supply a standard output ratiometric signal (0-5V). The design is ideal for demanding HVAC and refrigeration applications where long term reliability is necessary. The electrical interface is a rugged industry-accepted connector. This device maintains accuracy through a wide range of temperatures.

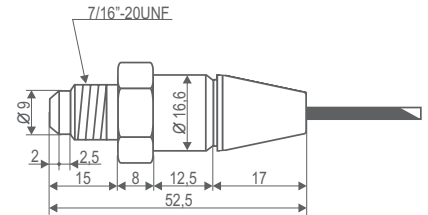
PPR15	3 wires ratiometric transducer with 0-5V output and measurement range 0-15bar
PPR30	3 wires ratiometric transducer with 0-5V output and measurement range 0-35bar
PPR45	3 wires ratiometric transducer with 0-5V output and measurement range 0-45bar

FEATURES

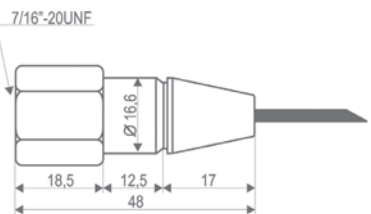
Power supply	4.5-5.5Vdc
Output	0.5-4.5Vdc
Protection	IP65
Operating temperature	-40-135°C (-40-275°F)
Storage temperature	-40-135°C (-40-275°F)
Accuracy	1.2% F.S.



MALE FITTING



FEMALE FITTING



FEMALE FITTING

