Hanwell

Hanwell IceSpy Sensor Options

The **Hanwell IceSpy** Sensor options technical data sheet details all the sensors available to use with the Hanwell IceSpy Series products.

Please select your product first from the relevent Hanwell IceSpy product datasheets, then add your required sensor appropriately as below. *Please note that sensor temperature ranges may be restricted by the instrument it is used with. Please check the relevent instrument data sheet.*

Note - This datasheet covers our standard and readily available cable lengths. Other lengths may be available than those listed. Please contact Hanwell Solutions with your requirements.









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Sensor Options

		Probe Family								
		Thermistor		Illelliocouple	PT100	Door	Analogue	Airflow	CO2	RH/T
Product family	Unit Type	IN-TH	J043	J044	IN-PT	IN-DC	IN-LSC	IN-AF	IN-CO2	MUH-NI
IN-TH	External thermistor	~								
IN-THD	External thermistor + door	>				~				
IN-TT	Thermocouple		~	>						
IN-TTD	Thermocouple + door		>	<		<				
IN-PT	PT100				<					
IN-PTD	PT100 + door				~	~				
IN-RH	RH/T									~
IN-VT001	0-1V						~			
IN-VT002	0-5V						~	~	~	
IN-VT003	0-10V						~			
IN-MA001	4-20mA						~			
Hanwell Lit	e:									
IN-WT	External thermistor (+ door *)	~				~				

* If door variant

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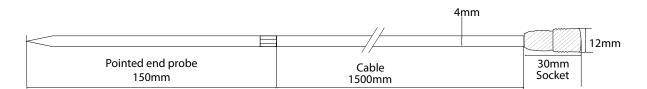


IN-TH Thermistor Probes

Standard	Part codes		Specifications	
Non-waterproof			Probe diameter	4mm
1.5 metre cable	IN-TH150		Probe operating range	-40°C to +100°C
3 metre cable	IN-TH300		Accuracy	+/- 0.5°C
Waterproof			Long term drift	< 0.1°C per year
1.5 metre cable	IN-TH150-WP		IP rating	IP68 (Waterproof version only)
3 metre cable	IN-TH300-WP			
			4mm	
4mm		/		12mm



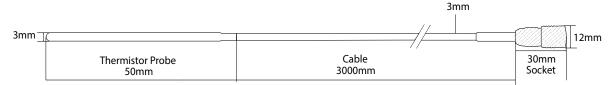
Pointed	Part codes	Specifications	
Non-waterproof		Probe diameter	4mm (pointed end)
1.5 metre cable	IN-TH150-P	Probe operating range	-40°C to +100°C
Waterproof		Accuracy	+/- 0.5°C
1.5 metre cable	IN-TH150-P-WP	Long term drift	< 0.1°C per year
		IP rating	IP68 (Waterproof version only)



Thin	Part codes	Specifications	
Non-waterproof		Probe diameter	3mm
3 metre cable	IN-TH300-3	Probe operating range	-40°C to +100°C
Waterproof		Accuracy	+/- 0.5°C
3 metre cable	IN-TH300-3-WP	Long term drift	< 0.1°C per year
		IP rating	IP68 (Waterproof version only)

*additional lengths available upon request.

(Thin probe and cable for easy routing around fridge/freezer door seals)



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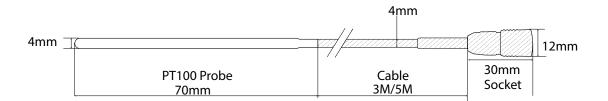




PT100 Probes

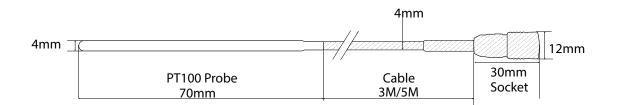
IN-PT143	Part codes	Specifications	
Non-waterproof		Type Class A	Flat film
3 metre cable	IN-PT143	Probe diameter	4mm
5 metre cable	IN-PT145	Probe operating range	-90°C to +250°C
Waterproof		Accuracy -50°C to +250°C	
3 metre cable	IN-PT143-WP	Accuracy Below -50°C	+/-(0.3+0.005*ltl)°C
5 metre cable	IN-PT145-WP	Long term drift	< 0.1°C per year *dependent on conditions of use
		IP Rating	IP68 (Waterproof version only)

*additional lengths available upon request.



IN-PT143	Part codes	Specifications	
Non-waterproof		Type Class A	Wire wound
3 metre cable	IN-PT143-CAL	Probe diameter	4mm
5 mete cable	IN-PT145-CAL	Probe operating range	-200°C to +250°C
Waterproof		Accuracy -100°C to +250	
3 metre cable	IN-PT143-CAL-WP	Accuracy Below -100°C	+/-(0.3+0.005*ltl)°C
5 mete cable	IN-PT145-CAL-WP	Long term drift	< 0.05°C per year *dependent on conditions of use
		IP Rating	IP68 (Waterproof version only)

*additional lengths available upon request.



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PT100 Probes cont'd

IN-PT100-WP	Part codes	Specifications	
Stabbing probe	IN-PT100-WP	Type Class A	Flat film
		Probe diameter	4mm
*additional lengths available upon request.		Probe operating range	-90°C to +250°C
		Accuracy -50°C to +250°C Accuracy Below -50°C	+/-(0.15+0.002*ltl)°C +/-(0.3+0.005*ltl)°C
		Long term drift	< 0.1°C per year *dependent on conditions of use
		IP Rating	IP68 (Waterproof version only)
		การเพลงละ -	4mm
Pointed end Pr 109mm	robe	Cable 3000m	

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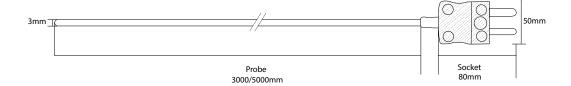


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J043/J044 Thermocouple Probes

Teflon coated	Part codes	Specifications	
3 metre cable	J043-3-09	Туре	Ultra precision Teflon coated Type T
5 metre cable	J043-5-09		(Thermocouple junction is isolated)
		Probe diameter	3mm
		Probe operating range	-200°C to +200°C
		Accuracy	BS EN 60584 - 1:2013 Class 1 +/- 0.5°C or +/-0.4%, (whichever is greater) above -40°C
			Below -40°C +/-1 or 1.5% of reading
		Long term drift	< 0.1°C per year
mm <u> (</u>	Probe 3000/5000mm	Socket 80mm	
		Socket	
Mineral Insulated	3000/5000mm	Socket 80mm	Mineral insulated Type T
Mineral Insulated	3000/5000mm Part codes	Specifications	Mineral insulated Type T (Thermocouple junction is isolated)
Mineral Insulated	3000/5000mm Part codes J044-3-09	Specifications	
Mineral Insulated	3000/5000mm Part codes J044-3-09	Socket 80mm Specifications Type	(Thermocouple junction is isolated) 3mm
Mineral Insulated 3 metre cable 5 metre cable	3000/5000mm Part codes J044-3-09	Socket 80mm Specifications Type Probe diameter	(Thermocouple junction is isolated) 3mm
Mineral Insulated 3 metre cable	3000/5000mm Part codes J044-3-09	Socket 80mm Specifications Type Probe diameter Probe operating range	(Thermocouple junction is isolated) 3mm -200°C to +350°C BS EN 60584 - 1:2013 Class 1 +/- 0.5°C or +/-0.4%, (whichever is



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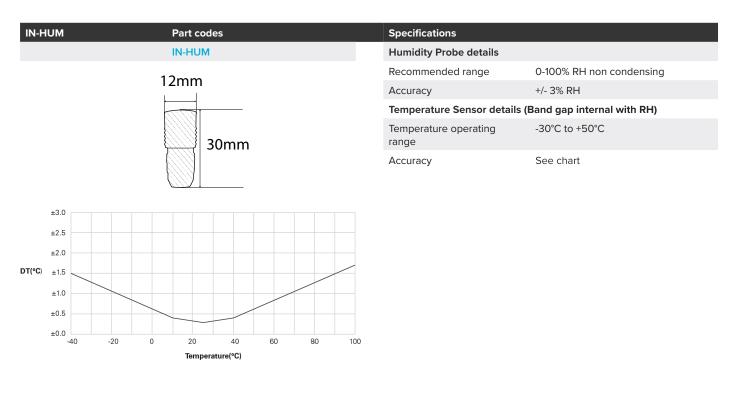
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RH/T Probe



Extension cables	Part codes	Specifications
1.5 metre cable	IN-EXT150	Temperature Operating -25°C to +85°C
		range

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IN-CO2 CO2 Sensors

External	Part codes	Specifications	
(0-5% CO ₂)	IN-CO2-5	Operating Temperature of CO2 Measurement	-40°C to +60°C
(0-10% CO2)	D ₂) IN-CO2-10	Accuracy @ 25°C and 1013 PA	±0.1% CO2
25mm		Temperature Dependence with Compensation, 0 to 20%CO2 between -40°C and +60°C	±0.045% of reading/°C
25mm		Long term drift	+/- 0.3% CO2 per year
		Housing	PET plastic
		Cable	1.5 metre
	CO2 Sensor 96mm	Output	0-5VDC
		, ,	e probe can be installed in an 1 temperature range -40 °C to +60 °C. cation that represents the measurement

environment properly.

Concentration	Part codes	
	IN-CO2-2000	
73 mm	● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●	(95 mm)

Specifications	
Operating Temperature of CO2 Measurement	-30°C to +60°C
Measuring range	0 to 2000ppm
Accuracy	±50ppm +2% of measured value
Temperature Dependence	-20°C to +45°C typ. 2ppm CO2/ °C
Analog output	4-20mA
IP Rating of housing	IP30
Cable	3 metre

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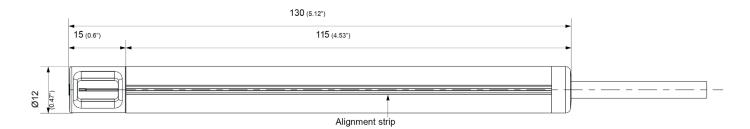




Airflow Sensors

0-5M/S	Part codes	Specifications	
	IN-AF05MS	Probe operating range	0-5m/s (0 1000ft/min)
		Analogue Output	0-5V
		Working range temperature	-20°C to +60°C
		Storage temperature	-30°C to +60°C
		Working range	0-5m/s (0 1000ft/min)
		Accuracy	±(0.2m/s / 40ft/ min +3% of measuring value)
		Cable length	2 metres
		Power supply	12V via external universal power supply
0-10M/S	Part codes	Specifications	
	IN-AF10MS	Probe operating range	0-10m/s (02000ft/min)
		Analogue Output	0-5V
		Working range temperature	-20°C to +60°C
		Storage temperature	-30°C to +60°C
		Working range	0-10m/s (02000ft/min)
		Accuracy	±(0.3m/s / 60ft/ min +4% of measuring value)
		Cable length	2 metres
		Power Supply	12V via external universal power supply
0-20M/S	Part codes	Specifications	

0-20M/S	Part codes	Specifications	
	IN-AF20MS	Probe operating range	0-20m/s (04000ft/min)
		Analogue Output	0-5V
		Working range temperature	-20°C to +60°C
		Storage temperature	-30°C to +60°C
		Working range	0-20m/s (04000ft/min)
		Accuracy	±(0.4m/s / 80ft/min +6% of measuring value)
		Cable length	2 metres
		Power supply	12V via external universal power supply



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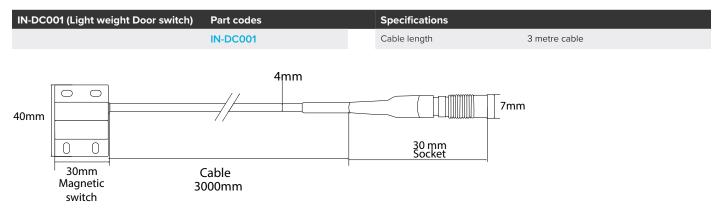
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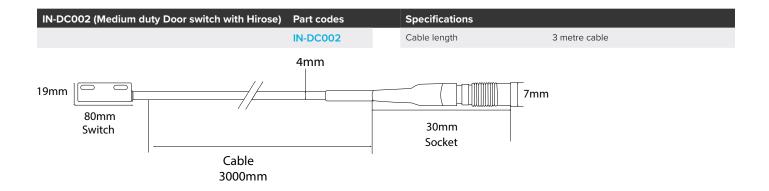
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IN-DC Door Sensors





IN-DC003 (Industrial Door events sensor)		Part codes	Specifications	
		IN-DC003	Cable length 3 metre cable	
50mm	175mm		Armoured Cable 30mm 3000mm Socket	
15mm	Part codes	22	Specifications	
3 metre cable	IN-DSC-3.0		Temperature Operating -20°C to +70°C	
5 metre cable	IN-D3C-3.0		range	

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IN-LSC & Y546

IN-LSC	Part codes	Specifications	
5 metre cable	IN-LSC-0.5	Lead that can be used	d to attach linear sensors to the IceSpy range
3 metre cable	IN-LSC-3.0		
Insulator/contact assembly	Il locking collar Seal bushing Soring Strain relief Cable		
Y546	Part codes	Specifications	
	Y546	Cable length	3 metre cable
Rear of plug		Lead that can be used	to wire a digital sensor into the relevant 4000
END A			END B

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