

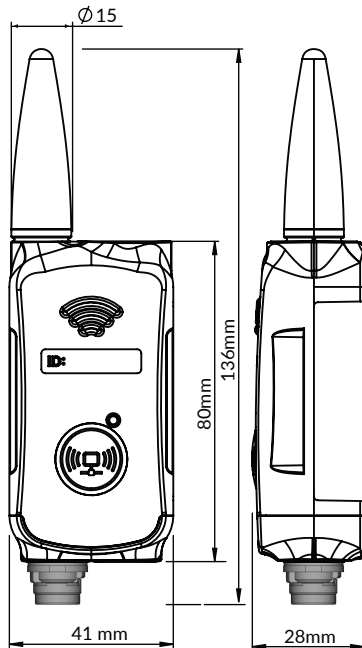
P2-WS102-0433

Single Input Wireless Transmitter



For use with the D3 family of wireless base stations
Compatible with a range of P3-DS Intelligent Digital Sensors (supplied separately)

Product Drawing:



Designed to work with tek troniks D3 wireless base stations and is compatible with a full range of tek troniks Intelligent sensors.

Long range secure communication protocols using licence free 433Mhz radio frequency.

Bi directional wireless communications with the base station allows for communication status reporting.

Can be used in environments where wash down is required.

The screw top battery compartment allows for users to easily replace the transmitter battery.

Technical Specifications:

Transmission Frequency:	1 minute	Battery Life:	>5 years in normal operation
RF Frequency:	433Mhz	Battery Type:	3.6V lithium
RF Range:	1km open space (250m typical)	Mounting:	Integral magnetic strip or optional mounting bracket
	Extenders available to boost range		
Status LED:	Provides communication status		
Weight:	73g		
IP Rating:	IP67		
Connector:	1 x 3 pin female Hirose		
Operating Temperature:	-20°C to 55°C		

Compatible P3-DS Intelligent Digital Sensors

Part No.	Description
P3-DS300-HR	External NTC 5K Stub Probe, (-20°C to +40°C)
P3-DS301-HR	External NTC 5K Probe, 1.5M FEP Cable (-50°C to +70°C)
P3-DS302-HR	External NTC 5K Probe, 4M FEP Cable (-50°C to +70°C)
P3-DS320-HR	External NTC 5K Probe, 1.5M Arctic Cable (-50°C to +70°C)
P3-DS321-HR	External NTC 5K Probe, 4M Arctic Cable (-50°C to +70°C)
P3-DS303-HR	External PT100 High Accuracy Temperature Probe (-30°C to 70°C)
P3-DS304-HR	External PT100 Ribbon Temperature Probe (-20°C to 100°C)
P3-DS305-HR	External PT100 Ribbon Surface Temperature Probe (-20°C to 100°C)
P3-DS306-HR	External PT1000 Standard Temperature Probe 1.5m FEP Cable (-45°C to 100°C)
P3-DS307-HR	External PT1000 Standard Temperature Probe 4m FEP Cable (-45°C to 100°C)
P3-DS322-HR	External PT1000 Standard Temperature Probe 1.5m Arctic Cable (-45°C to 100°C)
P3-DS323-HR	External PT1000 Standard Temperature Probe 4m Arctic Cable (-45°C to 100°C)
P3-DS308-HR	External PT1000 Extended Range Temperature Probe (-100°C to +200°C)
P3-DS309-HR	External PT1000 Temperature Probe, 1500mm Flexible Sensor Housing (-200°C to 200°C)
P3-DS310-HR	External PT1000 Temperature Probe, 370mm Stiff Sensor Housing (-200°C to 200°C)

Part No.	Description
P3-DS311-HR	Humidity Sensor (5%RH to 100%RH)
P3-DS312-HR	0-25mA Signal Input Sensor
P3-DS313-HR	0-200mV Signal Input Sensor
P3-DS314-HR	0-2V Signal Input Sensor
P3-DS315-HR	0-5V Signal Input Sensor
P3-DS316-HR	0-10V Signal Input Sensor
P3-DS317-HR	0-10K Ω Signal Input Sensor
P3-DS318-HR	Pulse Counting Sensor (Without Meter)
P3-DS319-HR	Digital Input Sensor (Volt Free)

Compatible Accessories

Part No.	Description
P7-SA1001	Wireless Transmitter Fixing Bracket
P7-SA1002	Wireless Transmitter Replacement Battery (Li 3.6V)
P7-SA1010	Intelligent Sensor Extension Cable - 4 meter

Doc: 106-10054-01 (DataSheet Intelligent Sensor Range)

Visit: www.tek-troniks.com Call: 0115 9890090

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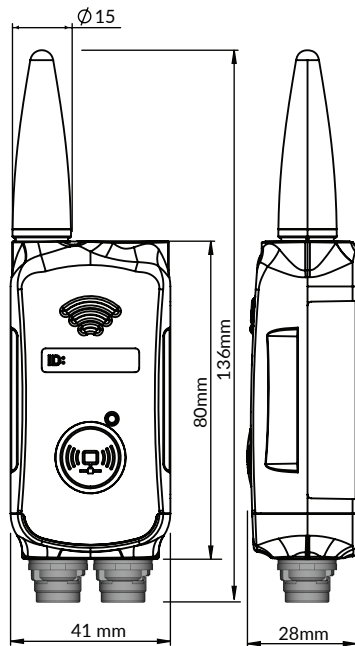
P2-WS103-0433

Dual Input Wireless Transmitter



For use with the D3 family of wireless base stations
Compatible with a range of P3-DS Intelligent Digital Sensors (supplied separately)

Product Drawing:



Designed to work with tek troniks D3 wireless base stations and is compatible with a full range of tek troniks intelligent sensors.

Long range secure communication protocols using licence free 433Mhz radio frequency.

Two sensor inputs on separate channels

Bi directional wireless communications with the base station allows for communication status reporting.

Can be used in environments where wash down is required.

The screw top battery compartment allows for users to easily replace the transmitter battery.

Technical Specifications:

Transmission Frequency:	1 minute	Battery Life:	>5 years in normal operation
RF Frequency:	433Mhz	Battery Type:	3.6V lithium
RF Range:	1km open space (250m typical)	Mounting:	Integral magnetic strip or optional mounting bracket
	Extenders available to boost range		
Status LED:	Provides communication status		
Weight:	77g		
IP Rating:	IP67		
Connector:	2 x 3 pin female Hirose		
Operating Temperature:	-20°C to 55°C		

Compatible P3-DS Intelligent Digital Sensors

Part No.	Description
P3-DS300-HR	External NTC 5K Stub Probe, (-20°C to +40°C)
P3-DS301-HR	External NTC 5K Probe, 1.5M FEP Cable (-50°C to +70°C)
P3-DS302-HR	External NTC 5K Probe, 4M FEP Cable (-50°C to +70°C)
P3-DS320-HR	External NTC 5K Probe, 1.5M Arctic Cable (-50°C to +70°C)
P3-DS321-HR	External NTC 5K Probe, 4M Arctic Cable (-50°C to +70°C)
P3-DS303-HR	External PT100 High Accuracy Temperature Probe (-30°C to 70°C)
P3-DS304-HR	External PT100 Ribbon Temperature Probe (-20°C to 100°C)
P3-DS305-HR	External PT100 Ribbon Surface Temperature Probe (-20°C to 100°C)
P3-DS306-HR	External PT1000 Standard Temperature Probe 1.5m FEP Cable (-45°C to 100°C)
P3-DS307-HR	External PT1000 Standard Temperature Probe 4m FEP Cable (-45°C to 100°C)
P3-DS322-HR	External PT1000 Standard Temperature Probe 1.5m Arctic Cable (-45°C to 100°C)
P3-DS323-HR	External PT1000 Standard Temperature Probe 4m Arctic Cable (-45°C to 100°C)
P3-DS308-HR	External PT1000 Extended Range Temperature Probe (-100°C to +200°C)
P3-DS309-HR	External PT1000 Temperature Probe, 1500mm Flexible Sensor Housing (-200°C to 200°C)
P3-DS310-HR	External PT1000 Temperature Probe, 370mm Stiff Sensor Housing (-200°C to 200°C)

Part No.	Description
P3-DS311-HR	Humidity Sensor (5%RH to 100%RH)
P3-DS312-HR	0-25mA Signal Input Sensor
P3-DS313-HR	0-200mV Signal Input Sensor
P3-DS314-HR	0-2V Signal Input Sensor
P3-DS315-HR	0-5V Signal Input Sensor
P3-DS316-HR	0-10V Signal Input Sensor
P3-DS317-HR	0-10K Ω Signal Input Sensor
P3-DS318-HR	Pulse Counting Sensor (Without Meter)
P3-DS319-HR	Digital Input Sensor (Volt Free)

Compatible Accessories

Part No.	Description
P7-SA1001	Wireless Transmitter Fixing Bracket
P7-SA1002	Wireless Transmitter Replacement Battery (Li 3.6V)
P7-SA1010	Intelligent Sensor Extension Cable - 4 meter

Doc: 106-10054-01 (DataSheet Intelligent Sensor Range)

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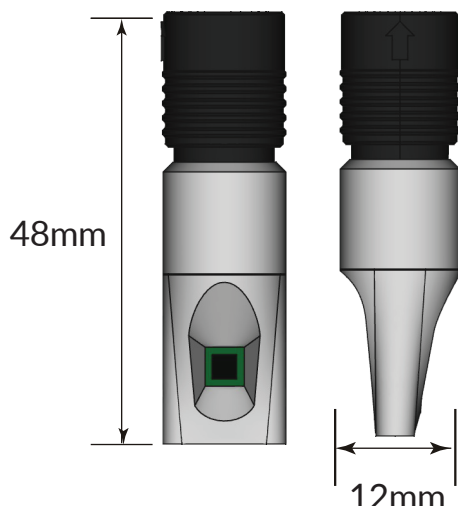
P3-DS300-HR

NTC Air Sensor Stub Mount -20°C to +45°C



For use with the D3 family of wireless base stations
Compatible with a full range of Intelligent Wireless Transmitters (supplied separately)

Product Drawing:



Designed to connect directly into the base of a wireless transmitter for measuring air temperature over the range of -20°C to +45°C.

The probe utilises a NTC thermistor which offers excellent stability and low drift over the lifetime of the sensor.

Common uses:
Fridges | Cold Rooms | Production Areas

This product can be supplied with a calibration certificate.

Technical Specifications:

Temperature Range:	-20°C to 45°C	Connector IP Rating:	IP67
Accuracy:	Standard - $\pm 0.5^{\circ}\text{C}$ over range Calibrated - $\pm 0.2^{\circ}\text{C}$ over range	Connector:	3 pin male Hirose
Thermistor:	NTC 5K R/T curve 8016/A01	Operating Temperature:	-20°C to 45°C
Weight:	6g	Electronics Sheathing:	Technomelt OM678
		Electronics IP Rating:	IP67

Compatible P2-WS Wireless Transmitters

Part No.	Description
P2-WS102-0433	- Single Input Wireless Transmitter with Hirose Connector (433Mhz)
P2-WS103-0433	- Dual Input Wireless Transmitter with Hirose Connectors (433Mhz)
P2-WS102-2400	- Single Input Wireless Transmitter with Hirose Connector (2.4Ghz)
P2-WS103-2400	- Dual Input Wireless Transmitter with Hirose Connectors (2.4Ghz)

Doc: 106-10054-01 (DataSheet Intelligent Sensor Range)

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P3-DS301-HR

NTC Temperature Sensor -50°C to +70°C

Supplied with 1.5m 2 core FEP cable

For use with the D3 family of wireless base stations

Compatible with a full range of Intelligent Wireless Transmitters (supplied separately)



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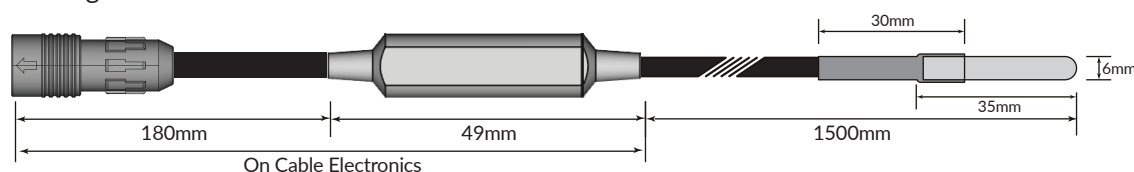
A general purpose temperature sensor for measuring air and contact temperature over the range of -50°C to +70°C.

The sensor utilises a NTC thermistor which offers excellent stability and low drift over the lifetime of the sensor. The thermistor is housed within a 6mm diameter 316L grade stainless steel housing back filled with epoxy with a heat shrink sheath. The FEP cable allows the cable to flex over its full operating range. The probe is supplied with a 1.5m cable.

Common uses: Fridges | Cold Rooms | Production Areas

This product can be supplied with a calibration certificate.

Product Drawing:



Technical Specifications:

Temperature Range: _____	-50°C to 70°C	On Cable Electronics
Accuracy: _____	Below -30° -30°C to 70°C	Connector IP Rating: _____ IP67
Standard -	±0.8°C ±0.5°C	Connector: _____ 3 pin male Hirose
Calibrated -	±0.5°C ±0.2°C	Operating Temperature: _____ -20°C to 55°C
Thermistor: _____	NTC 5K R/T curve 8016/A01	Electronics Sheathing: _____ Technomelt OM678
Weight: _____	40g	Electronics & Probe IP Rating: _____ IP68
Sensor Cable: _____	1500mm 2 core FEP cable	
Probe Sheathing: _____	316L grade stainless steel	

Compatible P2-WS Wireless Transmitters

Part No.	Description
P2-WS102-0433	- Single Input Wireless Transmitter with Hirose Connector (433Mhz)
P2-WS103-0433	- Dual Input Wireless Transmitter with Hirose Connectors (433Mhz)
P2-WS102-2400	- Single Input Wireless Transmitter with Hirose Connector (2.4Ghz)
P2-WS103-2400	- Dual Input Wireless Transmitter with Hirose Connectors (2.4Ghz)

Compatible Accessories

Part No.	Description
P7-SA1009	- Probe Fixing Bracket (for pipework, etc)

Doc: 106-10054-01 (DataSheet Intelligent Sensor Range)

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P3-DS302-HR

NTC Temperature Sensor -50°C to +70°C

Supplied with 4m 2 core FEP cable

For use with the D3 family of wireless base stations

Compatible with a full range of Intelligent Wireless Transmitters (supplied separately)



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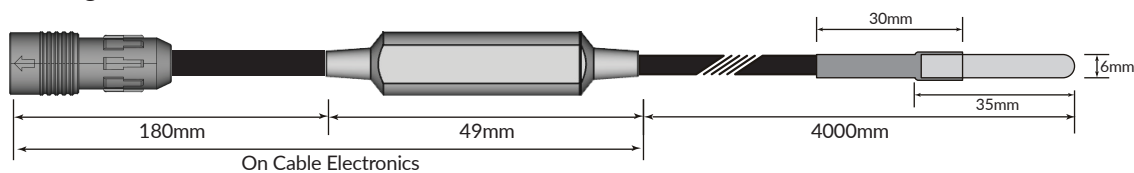
A general purpose temperature sensor for measuring air and contact temperature over the range of -50°C to +70°C.

The sensor utilises a NTC thermistor which offers excellent stability and low drift over the lifetime of the sensor. The thermistor is housed within a 6mm diameter 316L grade stainless steel housing back filled with epoxy with a heat shrink sheath. The FEP cable allows the cable to flex over its full operating range. The probe is supplied with a 4m cable.

Common uses: Fridges | Freezers | Cold Rooms | Production Areas | Chilled & Cold Pipework

This product can be supplied with a calibration certificate.

Product Drawing:



Technical Specifications:

Temperature Range:	-50°C to 70°C	On Cable Electronics
Accuracy:	Below -30° -30°C to 70°C	Connector IP Rating: IP67
Standard -	±0.8°C ±0.5°C	Connector: 3 pin male Hirose
Calibrated -	±0.5°C ±0.2°C	Operating Temperature: -20°C to 55°C
Thermistor:	NTC 5K R/T curve 8016/A01	Electronics Sheathing: Technomelt OM678
Weight:	80g	Electronics & Probe IP Rating: IP68
Sensor Cable:	4000mm 2 core FEP cable	
Probe Sheathing:	316L grade stainless steel	

Compatible P2-WS Wireless Transmitters

Part No.	Description
P2-WS102-0433	- Single Input Wireless Transmitter with Hirose Connector (433Mhz)
P2-WS103-0433	- Dual Input Wireless Transmitter with Hirose Connectors (433Mhz)
P2-WS102-2400	- Single Input Wireless Transmitter with Hirose Connector (2.4Ghz)
P2-WS103-2400	- Dual Input Wireless Transmitter with Hirose Connectors (2.4Ghz)

Compatible Accessories

Part No.	Description
P7-SA1009	- Probe Fixing Bracket (for pipework, etc)

Doc: 106-10054-01 (DataSheet Intelligent Sensor Range)

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P3-DS303-HR

PT100 High Accuracy Temperature Sensor -30°C to +70°C



Supplied with 1.5M 3 core FEP cable

For use with the D3 family of wireless base stations

Compatible with a full range of Intelligent Wireless Transmitters (supplied separately)

A high accuracy probe offering a Class A PT100 sensor element with a rigid stainless steel 3mm diameter sheath, terminated and pot sealed.

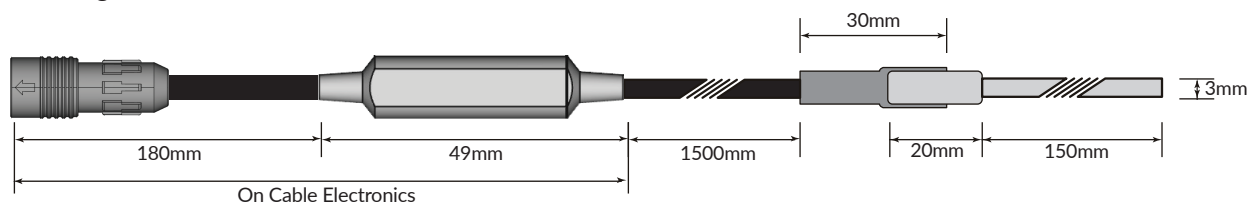
The FEP cable allows both the sensing element and cable to withstand the full operating temperature and remain flexible at low temperatures.

Operating temperature of -30°C to +70°C with an accuracy of 0.1°C and resolution of 0.001°C.

Common uses: Incubators

This product can be supplied with a calibration certificate.

Product Drawing:



Technical Specifications:

Temperature Range: -30°C to 70°C

Accuracy: -30°C to 70°C

Standard - $\pm 0.1^\circ\text{C}$

Calibrated - $\pm 0.1^\circ\text{C}$

Thermistor: PT100 Class A

Weight: 48g

Sensor Cable: 1500mm 3 core FEP cable

Probe Sheathing: 316L grade stainless steel

On Cable Electronics

Connector IP Rating: IP67

Connector: 3 pin male Hirose

Operating Temperature: -20°C to 55°C

Electronics Sheathing: Technomelt OM678

Electronics & Probe IP Rating: IP68

Compatible P2-WS Wireless Transmitters

Part No.	Description
P2-WS102-0433	- Single Input Wireless Transmitter with Hirose Connector (433Mhz)
P2-WS103-0433	- Dual Input Wireless Transmitter with Hirose Connectors (433Mhz)
P2-WS102-2400	- Single Input Wireless Transmitter with Hirose Connector (2.4Ghz)
P2-WS103-2400	- Dual Input Wireless Transmitter with Hirose Connectors (2.4Ghz)

Compatible Accessories

Part No.	Description
P7-SA1009	- Probe Fixing Bracket (for pipework, etc)

Doc: 106-10054-01 (DataSheet Intelligent Sensor Range)

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P3-DS304-HR

PT100 Ribbon Temperature

Sensor -20°C to +90°C

Sensor with 1.5m 3 core flat PVC ribbon cable

For use with the D3 family of wireless base stations

Compatible with a full range of Intelligent Wireless Transmitters (supplied separately)



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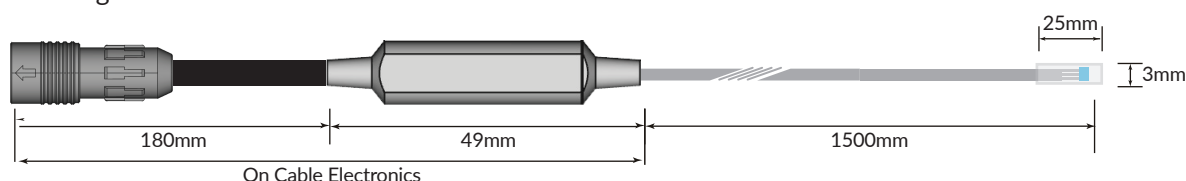
The sensing element is protected with an industrial grade clear heat shrink measuring only 3mm in diameter and can be used in a wide variety of applications. The thin design of the sensing element provides a fast thermal response.

The sensor is terminated to 3 wire flexible flat ribbon cable providing easy mount through door seals.

Common uses: Fridges | Freezers | Incubators

This product can be supplied with a calibration certificate.

Product Drawing:



Technical Specifications:

Temperature Range: _____	-20°C to 90°C	On Cable Electronics
Accuracy: _____	-20 to 40°C 40°C to 90°C	
Standard -	±0.5°C ±0.8°C	
Calibrated -	±0.2°C ±0.3°C	
Thermistor: _____	PT100 Class B	Connector IP Rating: _____
Weight: _____	19g	Connector: _____
Sensor Cable: _____	1500mm 3 core PVC ribbon cable	Operating Temperature: _____
Cable Operating Temperature: _____	-20°C to 90°C	Electronics Sheathing: _____
Probe Sheathing: _____	Military grade polyolefin	Electronics & Probe IP Rating: _____

Compatible P2-WS Wireless Transmitters

Part No.	Description
P2-WS102-0433	- Single Input Wireless Transmitter with Hirose Connector (433Mhz)
P2-WS103-0433	- Dual Input Wireless Transmitter with Hirose Connectors (433Mhz)
P2-WS102-2400	- Single Input Wireless Transmitter with Hirose Connector (2.4Ghz)
P2-WS103-2400	- Dual Input Wireless Transmitter with Hirose Connectors (2.4Ghz)

Compatible Accessories

Part No.	Description
P7-SA1009	- Probe Fixing Bracket (for pipework, etc)

Doc: 106-10054-01 (DataSheet Intelligent Sensor Range)

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P3-DS305-HR

PT100 Surface Temperature

Sensor -20°C to +90°C

Supplied with 1.5m 3 core flat PVC ribbon cable

For use with the D3 family of wireless base stations

Compatible with a full range of Intelligent Wireless Transmitters (supplied separately)



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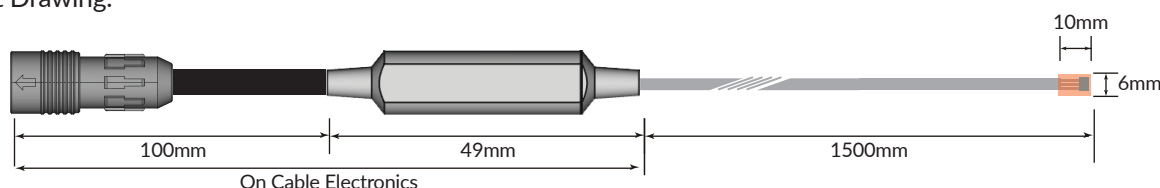
Polyimide insulated surface mount temperature sensor designed to provide a practical method for measuring surface temperatures in the range of -20°C to +90°C. The thin design of the sensing element minimises the effects of having the sensor attached to the surface being measured resulting in a fast thermal response.

The sensor is terminated to 3 wire flexible flat ribbon cable providing easy mount through door seals.

Common uses: Chilled & Hot Surfaces | Hot Plates | Incubators

This product can be supplied with a calibration certificate.

Product Drawing:



Technical Specifications:

Temperature Range: _____ -20°C to 90°C	On Cable Electronics
Accuracy: _____ -20 to 40°C 40°C to 90°C	Connector IP Rating: _____ IP67
Standard - ±0.5°C ±0.8°C	Connector: _____ 3 pin male Hirose
Calibrated - ±0.2°C ±0.3°C	Operating Temperature: _____ -20°C to 55°C
Thermistor: _____ PT100 Class B	Electronics Sheathing: _____ Technomelt OM678
Weight: _____ 19g	Electronics & Probe IP Rating: ____ IP68
Sensor Cable: _____ 1500mm 3 core PVC ribbon cable	
Cable Operating Temperature: _____ -20°C to 90°C	
Probe Sheathing: _____ Polyimide Film	

Compatible P2-WS Wireless Transmitters

Part No.	Description
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P2-WS103-0433	- Dual Input Wireless Transmitter with Hirose Connectors (433Mhz)
P2-WS102-2400	- Single Input Wireless Transmitter with Hirose Connector (2.4Ghz)
P2-WS103-2400	- Dual Input Wireless Transmitter with Hirose Connectors (2.4Ghz)

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P3-DS306-HR

PT1000 Temperature Sensor -45°C to +100°C



Supplied with 1.5m 3 core FEP cable

For use with the D3 family of wireless base stations

Compatible with a full range of Intelligent Wireless Transmitters (supplied separately)

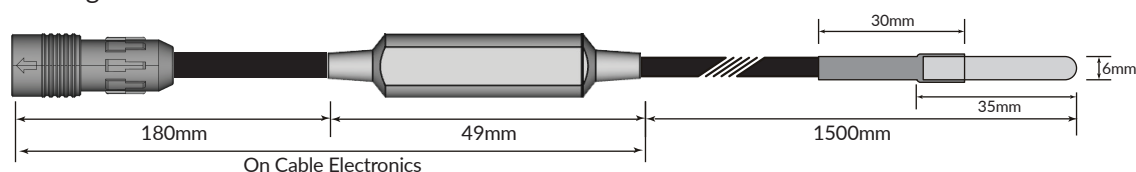
A general purpose temperature probe for measuring air and contact temperature over the range of -45°C to +100°C. A Class B PT100 sensor element is housed within a 6mm 316L stainless steel diameter housing back filled with epoxy with a heat shrink sheath.

The FEP cable allows the cable to flex over its full operating range. Supplied with a 1.5m cable.

Common uses: Fridges | Freezers | Cold Rooms | Production Areas | Hot & Cold Pipework

This product can be supplied with a calibration certificate.

Product Drawing:



Technical Specifications:

Temperature Range: -45°C to 100°C				On Cable Electronics	
Accuracy:				Connector IP Rating:	IP67
				Connector:	3 pin male Hirose
Standard -				Operating Temperature:	-20°C to 55°C
Calibrated -				Electronics Sheathing:	Technomelt OM678
Thermistor:				Electronics & Probe IP Rating:	IP68
Weight:					
Sensor Cable:					
Probe Sheathing:					

Compatible P2-WS Wireless Transmitters

Part No.	Description
P2-WS102-0433	- Single Input Wireless Transmitter with Hirose Connector (433Mhz)
P2-WS103-0433	- Dual Input Wireless Transmitter with Hirose Connectors (433Mhz)
P2-WS102-2400	- Single Input Wireless Transmitter with Hirose Connector (2.4Ghz)
P2-WS103-2400	- Dual Input Wireless Transmitter with Hirose Connectors (2.4Ghz)

Compatible Accessories

Part No.	Description
P7-SA1009	- Probe Fixing Bracket (for pipework, etc)

Doc: 106-10054-01 (DataSheet Intelligent Sensor Range)

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P3-DS307-HR

PT1000 Temperature Sensor -45°C to +100°C

Supplied with 4m 3 core FEP cable

For use with the D3 family of wireless base stations

Compatible with a full range of Intelligent Wireless Transmitters (supplied separately)



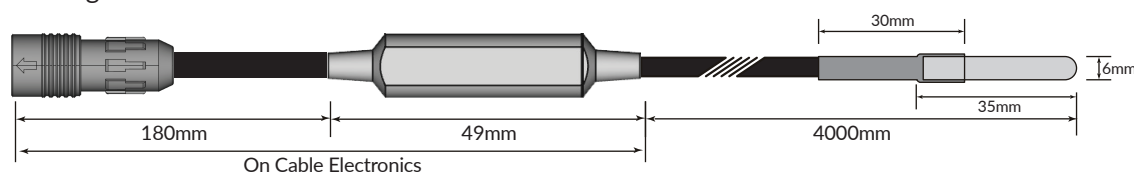
A general purpose temperature probe for measuring air and contact temperature over the range of -45°C to +100°C. A Class B PT100 sensor element is housed within a 6mm 316L stainless steel diameter housing back filled with epoxy with a heat shrink sheath.

The FEP cable allows the cable to flex over its full operating range. Supplied with a 4m cable.

Common uses: Fridges | Freezers | Cold Rooms | Production Areas | Hot & Cold Pipework

This product can be supplied with a calibration certificate.

Product Drawing:



Technical Specifications:

Temperature Range: _____	-45°C to 100°C	On Cable Electronics	
Accuracy: _____	Below -20°C	-20°C to 70°C	70°C to 100°C
Standard -	±1.0°C	±0.5°C	±1.2°C
Calibrated -	±0.5°C	±0.2°C	±0.5°C
Thermistor: _____	PT1000 Class B	Connector IP Rating: _____	IP67
Weight: _____	80g	Connector: _____	3 pin male Hirose
Sensor Cable: _____	4000mm 3 core FEP cable	Operating Temperature: _____	-20°C to 55°C
Probe Sheathing: _____	316L grade stainless steel	Electronics Sheathing: _____	Technomelt OM678
		Electronics & Probe IP Rating: _____	IP68

Compatible P2-WS Wireless Transmitters

Part No.	Description
P2-WS102-0433	- Single Input Wireless Transmitter with Hirose Connector (433Mhz)
P2-WS103-0433	- Dual Input Wireless Transmitter with Hirose Connectors (433Mhz)
P2-WS102-2400	- Single Input Wireless Transmitter with Hirose Connector (2.4Ghz)
P2-WS103-2400	- Dual Input Wireless Transmitter with Hirose Connectors (2.4Ghz)

Compatible Accessories

Part No.	Description
P7-SA1009	- Probe Fixing Bracket (for pipework, etc)

Doc: 106-10054-01 (DataSheet Intelligent Sensor Range)

Visit: www.tek-troniks.com Call: 0115 9890090

Product Disclaimer:

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P3-DS308-HR

PT100 Extended Range Temperature Sensor -100°C to +200°C



Supplied with 1.5m 3 core FEP cable

For use with the D3 family of wireless base stations
Compatible with a full range of Intelligent Wireless Transmitters (supplied separately)

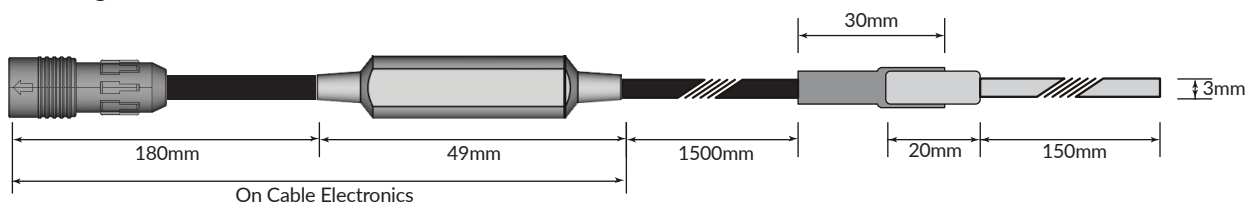
Multipurpose temperature probe to measure temperature in the range of -100°C to +200°C. The sensing element is housed in a 3mm diameter 316L stainless steel tube pot sealed with epoxy resin with a heat shrink sheath.

The FEP cables allows both the sensing element and cable to withstand the full operating temperature.

Common uses: Chilled & Frozen Food | Incubators | -45°C Freezers | -80°C Freezers.

This product can be supplied with a calibration certificate.

Product Drawing:



Technical Specifications:

Temperature Range: _____ -100°C to 200°C

Accuracy: _____ @ -100°C @ 0°C @100°C @200°C

Standard - ±1.0°C ±0.5°C ±1.0°C ±1.0°C

Calibrated - ±0.5°C ±0.2°C ±0.5°C ±0.5°C

Thermistor: _____ PT1000 Class B

Weight: _____ 48g

Sensor Cable: _____ 1500mm 3 core FEP cable

Probe Sheathing: _____ 316L grade stainless steel

On Cable Electronics

Connector IP Rating: _____ IP67

Connector: _____ 3 pin male Hirose

Operating Temperature: _____ -20°C to 55°C

Electronics Sheathing: _____ Technomelt OM678

Electronics & Probe IP Rating: _____ IP68

Compatible P2-WS Wireless Transmitters

Part No.	Description
P2-WS102-0433	- Single Input Wireless Transmitter with Hirose Connector (433Mhz)
P2-WS103-0433	- Dual Input Wireless Transmitter with Hirose Connectors (433Mhz)
P2-WS102-2400	- Single Input Wireless Transmitter with Hirose Connector (2.4Ghz)
P2-WS103-2400	- Dual Input Wireless Transmitter with Hirose Connectors (2.4Ghz)

Doc: 106-10054-01 (DataSheet Intelligent Sensor Range)

Visit: www.tek-troniks.com Call: 0115 9890090

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P3-DS309-HR

PT1000 Flexible Extreme Range Sensor -200°C to +200°C



Supplied with 1.5m flexible mineral insulated cable

For use with the D3 family of wireless base stations

Compatible with a full range of Intelligent Wireless Transmitters (supplied separately)

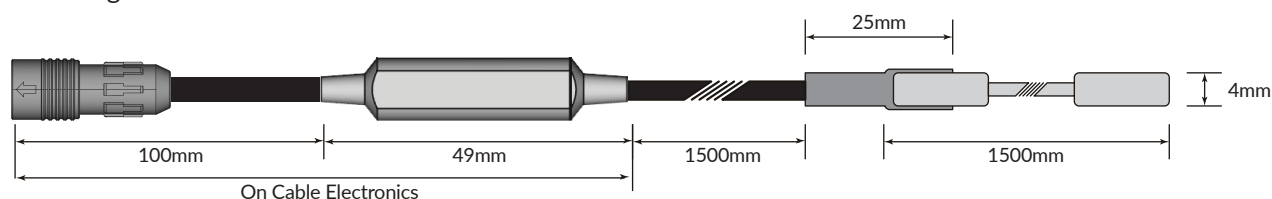
The mineral insulated sensor is supplied with a 316L stainless steel sheath suitable for use over the entire range of -200°C to +200°C. The mineral insulated construction allows the sensor to be bent (100mm from tip) and protects the sensing element against failure caused by vibration.

Terminated to FEP cable pot sealed with epoxy resin. The sensors can be used both immersed or in free air.

Common uses: LN2 Flasks | Incubators | -45°C Freezers | -80°C Freezers | Ovens & Scald Tanks

This product can be supplied with a calibration certificate.

Product Drawing:



Technical Specifications:

Temperature Range:	-200°C to 200°C				On Cable Electronics
Accuracy:	@ -100°C	@ 0°C	@100°C	@200°C	
Standard -	±1.0°C	±0.5°C	±1.0°C	±1.0°C	
Calibrated -	±0.5°C	±0.2°C	±0.5°C	±0.5°C	
Thermistor:	PT1000 Class B				
Weight:	100g				Connector IP Rating: IP67 Connector: 3 pin male Hirose Operating Temperature: -20°C to 55°C Electronics Sheathing: Technomelt OM678 Electronics & Probe IP Rating: IP68
Sensor Cable:	1500mm 3 core FEP cable				
Probe Sheathing:	316 grade stainless steel				
Probe Cable:	1500mm flexible mineral insulated cable				

Compatible P2-WS Wireless Transmitters

Part No.	Description
P2-WS102-0433	Single Input Wireless Transmitter with Hirose Connector (433Mhz)
P2-WS103-0433	Dual Input Wireless Transmitter with Hirose Connectors (433Mhz)
P2-WS102-2400	Single Input Wireless Transmitter with Hirose Connector (2.4Ghz)
P2-WS103-2400	Dual Input Wireless Transmitter with Hirose Connectors (2.4Ghz)

Doc: 106-10054-01 (DataSheet Intelligent Sensor Range)

Visit: www.tek-troniks.com Call: 0115 9890090

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P3-DS310-HR

PT1000 Stiff Extreme Range Sensor -200°C to +200°C



Supplied with 370mm stiff mineral insulated cable

For use with the D3 family of wireless base stations

Compatible with a full range of Intelligent Wireless Transmitters (supplied separately)

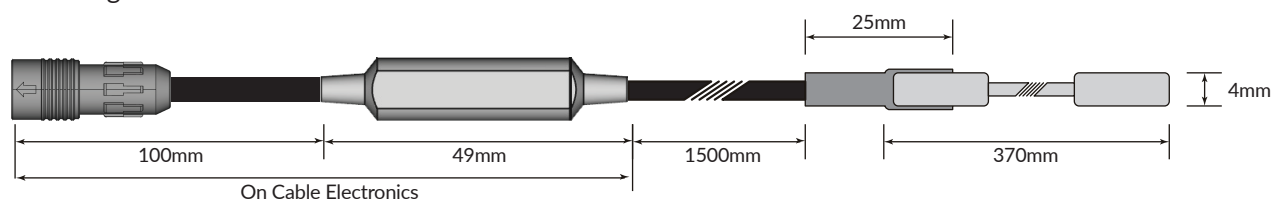
The sensor is supplied with 370mm of 316L stainless steel sheath suitable for use over the entire range of -200°C to +200°C. The stiff construction makes this sensor ideal as an immersion sensor.

Terminated to FEP cable pot sealed with epoxy resin.

Common uses: LN2 flasks | Incubators | -45°C freezers | -80°C freezers | Ovens & Scald Tanks

This product can be supplied with a calibration certificate.

Product Drawing:



Technical Specifications:

Temperature Range: _____ -200°C to 200°C

Accuracy: _____ @ -100°C @ 0°C @ 100°C @ 200°C

Standard - ±1.0°C ±0.5°C ±1.0°C ±1.0°C

Calibrated - ±0.5°C ±0.2°C ±0.5°C ±0.5°C

Thermistor: _____ PT1000 Class B

Weight: _____ 58g

Sensor Cable: _____ 1500mm 3 core FEP cable

Probe Sheathing: _____ 316L grade stainless steel

Probe Cable: _____ 370mm stiff mineral insulated cable

On Cable Electronics

Connector IP Rating: _____ IP67

Connector: _____ 3 pin male Hirose

Operating Temperature: _____ -20°C to 55°C

Electronics Sheathing: _____ Technomelt OM678

Electronics & Probe IP Rating: ____ IP68

Compatible P2-WS Wireless Transmitters

Part No.	Description
P2-WS102-0433	- Single Input Wireless Transmitter with Hirose Connector (433Mhz)
P2-WS103-0433	- Dual Input Wireless Transmitter with Hirose Connectors (433Mhz)
P2-WS102-2400	- Single Input Wireless Transmitter with Hirose Connector (2.4Ghz)
P2-WS103-2400	- Dual Input Wireless Transmitter with Hirose Connectors (2.4Ghz)

Doc: 106-10054-01 (DataSheet Intelligent Sensor Range)

Visit: www.tek-troniks.com Call: 0115 9890090

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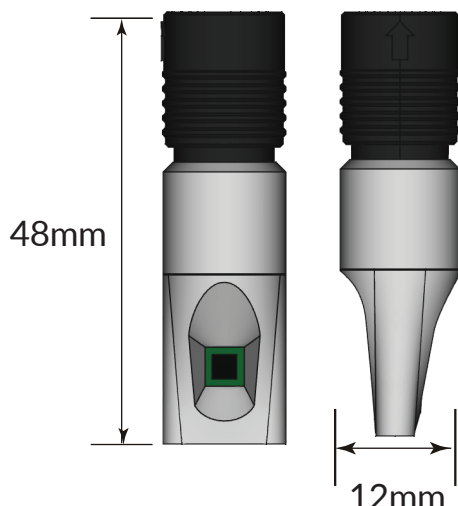
P3-DS311-HR

%RH Humidity Sensor - Stub Mount



For use with the D3 family of wireless base stations
Compatible with a full range of Intelligent Wireless Transmitters (supplied separately)

Product Drawing:



A general purpose humidity sensor which is designed to accurately and reliably measure relative humidity.

It shows best performance when operated over the temperature and humidity range of 20%RH to 80%RH and 5°C to 55°C respectively.

Common uses:
Museums | Medical Stores | Warehouses |
Production Areas

This product can be supplied with a calibration certificate.

Technical Specifications:

Humidity Range: 5%RH to 95%RH				On-Board Electronics	
Temperature Range: -20°C to 55°C				Connector IP Rating:	IP67
Accuracy @23°C:				Connector:	3 pin male Hirose
0 to 25%RH		25 to 75%RH	75 to 95%RH	Operating Temperature:	-20°C to 55°C
Standard - ±3.0%RH		±3.0%RH	±4.0%RH	Electronics Sheathing:	Technomelt OM678
Calibrated - ±1.5%RH		±2.7%RH	±2.9%RH	Electronics IP Rating:	RH sensor should not be used in applications greater than 95%RH, nor immersed in liquid
Weight: 6g					

Compatible P2-WS Wireless Transmitters

Part No.	Description
P2-WS102-0433	- Single Input Wireless Transmitter with Hirose Connector (433Mhz)
P2-WS103-0433	- Dual Input Wireless Transmitter with Hirose Connectors (433Mhz)
P2-WS102-2400	- Single Input Wireless Transmitter with Hirose Connector (2.4Ghz)
P2-WS103-2400	- Dual Input Wireless Transmitter with Hirose Connectors (2.4Ghz)

Compatible Accessories

Part No.	Description
P7-SA1010	- Intelligent Sensor Remote Extension Cable, 4 Meters

Doc: 106-10054-01 (DataSheet Intelligent Sensor Range)

Visit: www.tek-troniks.com Call: 0115 9890090

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P3-DS312-HR

4-20mA Current Sensor

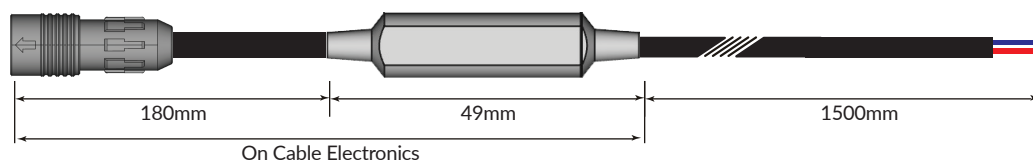


For use with the D3 family of wireless base stations
Compatible with a full range of Intelligent Wireless Transmitters (supplied separately)

Connects to any industry standard device that generates an active output current of 4-20mA. The signal can then be converted via a user custom table to a measured value for monitoring and alarm purposes.

Common uses: Pressure | Temperature | Concentration | Light | CO²

Product Drawing:



Technical Specifications:

Input Range: 1 - 24mA
Accuracy: $\pm 1\%$ over full scale
Resolution: 0.001mA
Weight: 38g
Sensor Cable: 1500mm 2 Core Arctic Cable

On Cable Electronics

Connector IP Rating: IP67
Connector: 3 pin male Hirose
Operating Temperature: -20°C to 55°C
Electronics Sheathing: Technomelt OM678
Electronics IP Rating: IP68

Compatible P2-WS Wireless Transmitters

Part No.	Description
P2-WS102-0433	Single Input Wireless Transmitter with Hirose Connector (433Mhz)
P2-WS103-0433	Dual Input Wireless Transmitter with Hirose Connectors (433Mhz)
P2-WS102-2400	Single Input Wireless Transmitter with Hirose Connector (2.4Ghz)
P2-WS103-2400	Dual Input Wireless Transmitter with Hirose Connectors (2.4Ghz)

Compatible Accessories

Part No.	Description
P7-SA1010	Intelligent Sensor Extension Cable - 4 meter

Doc: 106-10054-01 (DataSheet Intelligent Sensor Range)

Visit: www.tek-troniks.com Call: 0115 9890090

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P3-DS313-HR

0-200mV Voltage Sensor

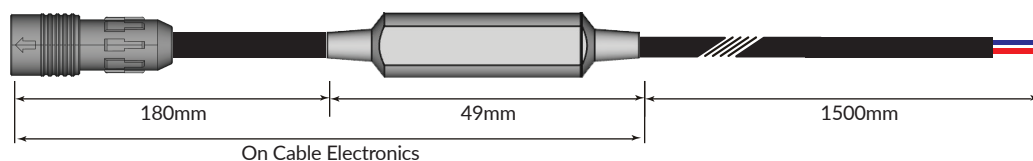


For use with the D3 family of wireless base stations
Compatible with a full range of Intelligent Wireless Transmitters (supplied separately)

Connects to any industry standard device that generates an active output voltage of 0-200mV. The signal can then be converted via a user custom table to a measured value for monitoring and alarm purposes.

Common uses: Pressure | Temperature | Concentration | Light | CO²

Product Drawing:



Technical Specifications:

Input Range: 0 - 200mV
Accuracy: $\pm 1\%$ over full scale
Resolution: 1uV
Weight: 38g
Sensor Cable: 1500mm 2 Core Arctic Cable

On Cable Electronics

Connector IP Rating: IP67
Connector: 3 pin male Hirose
Operating Temperature: -20°C to 55°C
Electronics Sheathing: Technomelt OM678
Electronics IP Rating: IP68

Compatible P2-WS Wireless Transmitters

Part No.	Description
P2-WS102-0433	Single Input Wireless Transmitter with Hirose Connector (433Mhz)
P2-WS103-0433	Dual Input Wireless Transmitter with Hirose Connectors (433Mhz)
P2-WS102-2400	Single Input Wireless Transmitter with Hirose Connector (2.4Ghz)
P2-WS103-2400	Dual Input Wireless Transmitter with Hirose Connectors (2.4Ghz)

Compatible Accessories

Part No.	Description
P7-SA1010	Intelligent Sensor Extension Cable - 4 meter

Doc: 106-10054-01 (DataSheet Intelligent Sensor Range)

Visit: www.tek-troniks.com Call: 0115 9890090

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P3-DS314-HR

0-2V Voltage Sensor

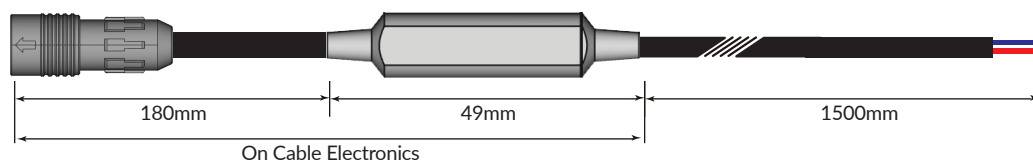


For use with the D3 family of wireless base stations
Compatible with a full range of Intelligent Wireless Transmitters (supplied separately)

Connects to any industry standard device that generates an active output Voltage 0-2V. The signal can then be converted via a user custom table to a measured value for monitoring and alarm purposes.

Common uses: Pressure | Temperature | Concentration | Light | CO²

Product Drawing:



Technical Specifications:

		On Cable Electronics
Input Range:	0 - 2V	Connector IP Rating: IP67
Accuracy:	±1% over full scale	Connector: 3 pin male Hirose
Resolution:	1uV	Operating Temperature: -20°C to 55°C
Weight:	38g	Electronics Sheathing: Technomelt OM678
Sensor Cable:	1500mm 2 Core Arctic Cable	Electronics IP Rating: IP68

Compatible P2-WS Wireless Transmitters

Part No.	Description
P2-WS102-0433	- Single Input Wireless Transmitter with Hirose Connector (433Mhz)
P2-WS103-0433	- Dual Input Wireless Transmitter with Hirose Connectors (433Mhz)
P2-WS102-2400	- Single Input Wireless Transmitter with Hirose Connector (2.4Ghz)
P2-WS103-2400	- Dual Input Wireless Transmitter with Hirose Connectors (2.4Ghz)

Compatible Accessories

Part No.	Description
P7-SA1010	- Intelligent Sensor Extension Cable - 4 meter

Doc: 106-10054-01 (DataSheet Intelligent Sensor Range)

Visit: www.tek-troniks.com Call: 0115 9890090

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P3-DS315-HR

0-5V Voltage Sensor

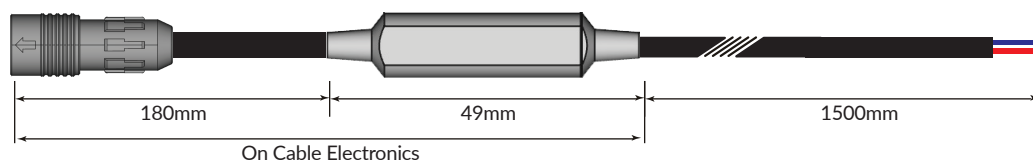


For use with the D3 family of wireless base stations
Compatible with a full range of Intelligent Wireless Transmitters (supplied separately)

Connects to any industry standard device that generates an active output Voltage 0-5V. The signal can then be converted via a user custom table to a measured value for monitoring and alarm purposes.

Common uses: Pressure | Temperature | Concentration | Light | CO²

Product Drawing:



Technical Specifications:

		On Cable Electronics
Input Range:	0 - 5V	Connector IP Rating: IP67
Accuracy:	±1% over full scale	Connector: 3 pin male Hirose
Resolution:	1uV	Operating Temperature: -20°C to 55°C
Weight:	38g	Electronics Sheathing: Technomelt OM678
Sensor Cable:	1500mm 2 Core Arctic Cable	Electronics IP Rating: IP68

Compatible P2-WS Wireless Transmitters

Part No.	Description
P2-WS102-0433	- Single Input Wireless Transmitter with Hirose Connector (433Mhz)
P2-WS103-0433	- Dual Input Wireless Transmitter with Hirose Connectors (433Mhz)
P2-WS102-2400	- Single Input Wireless Transmitter with Hirose Connector (2.4Ghz)
P2-WS103-2400	- Dual Input Wireless Transmitter with Hirose Connectors (2.4Ghz)

Compatible Accessories

Part No.	Description
P7-SA1010	- Intelligent Sensor Extension Cable - 4 meter

Doc: 106-10054-01 (DataSheet Intelligent Sensor Range)

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P3-DS316-HR

0-10V Voltage Sensor

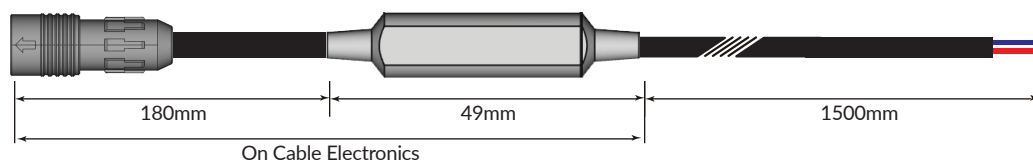


For use with the D3 family of wireless base stations
Compatible with a full range of Intelligent Wireless Transmitters (supplied separately)

Connects to any industry standard device that generates an active output Voltage 0-10V. The signal can then be converted via a user custom table to a measured value for monitoring and alarm purposes.

Common uses: Pressure | Temperature | Concentration | Light | CO²

Product Drawing:



Technical Specifications:

Input Range:	0 - 10V
Accuracy:	±1% over full scale
Resolution:	1uV
Weight:	??g
Sensor Cable:	1500mm 2 Core Arctic Cable

On Cable Electronics

Connector IP Rating:	IP67
Connector:	3 pin male Hirose
Operating Temperature:	-20°C to 55°C
Electronics Sheathing:	Technomelt OM678
Electronics IP Rating:	IP68

Compatible P2-WS Wireless Transmitters

Part No.	Description
P2-WS102-0433	- Single Input Wireless Transmitter with Hirose Connector (433Mhz)
P2-WS103-0433	- Dual Input Wireless Transmitter with Hirose Connectors (433Mhz)
P2-WS102-2400	- Single Input Wireless Transmitter with Hirose Connector (2.4Ghz)
P2-WS103-2400	- Dual Input Wireless Transmitter with Hirose Connectors (2.4Ghz)

Compatible Accessories

Part No.	Description
P7-SA1010	- Intelligent Sensor Extension Cable - 4 meter

Doc: 106-10054-01 (DataSheet Intelligent Sensor Range)

Visit: www.tek-troniks.com Call: 0115 9890090

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P3-DS318-HR

Pulse Counting Sensor



For use with the D3 family of wireless base stations
Compatible with a full range of Intelligent Wireless Transmitters (supplied separately)

Connects to any industry standard pulsed output meter with a standard pulse length of 100ms.

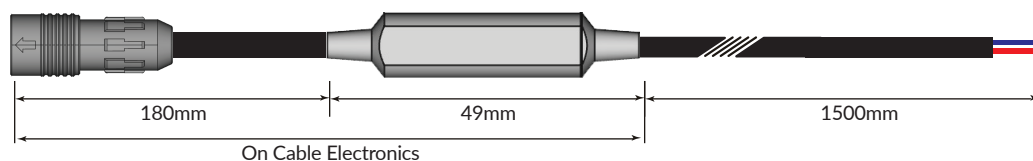
The signal can then be converted via a user custom table to a measured value for monitoring and alarm purposes.

Commonly uses:

Measurement energy consumption.

Measurement of liquids and gases flow.

Product Drawing:



Technical Specifications:

		On Cable Electronics
Input Range:	External volt free signal contact	Connector IP Rating: IP67
Pulse Length:	Min >50ms	Connector: 3 pin male Hirose
Pulse Interval:	Min >50ms	Operating Temperature: -20°C to 55°C
Weight:	38g	Electronics Sheathing: Technomelt OM678
Sensor Cable:	1500mm 2 Core Arctic Cable	Electronics IP Rating: IP68

Compatible P2-WS Wireless Transmitters

Part No.	Description
P2-WS102-0433	- Single Input Wireless Transmitter with Hirose Connector (433Mhz)
P2-WS103-0433	- Dual Input Wireless Transmitter with Hirose Connectors (433Mhz)
P2-WS102-2400	- Single Input Wireless Transmitter with Hirose Connector (2.4Ghz)
P2-WS103-2400	- Dual Input Wireless Transmitter with Hirose Connectors (2.4Ghz)

Compatible Accessories

Part No.	Description
P7-SA1010	- Intelligent Sensor Extension Cable - 4 meter

Doc: 106-10054-01 (DataSheet Intelligent Sensor Range)

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P3-DS319-HR

Digital Input/Counting Sensor



For use with the D3 family of wireless base stations
Compatible with a full range of Intelligent Wireless Transmitters (supplied separately)

Connects to any industry standard device with a volt free digital output for measuring status of plant and machinery. In addition to status the sensor also counts the number of contacts.

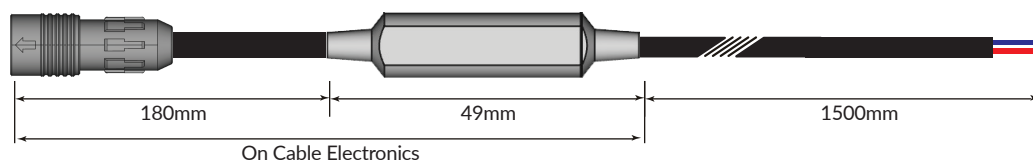
Common uses:

Door monitoring providing both the status and number of occurrences.

Plant status monitoring.

Flood detection systems.

Product Drawing:



Technical Specifications:

On Cable Electronics	
Input Range:	Single volt free input
Min Pulse Width Period:	2 Seconds
Weight:	38g
Sensor Cable:	1500mm 2 Core Arctic Cable
Connector IP Rating:	IP67
Connector:	3 pin male Hirose
Operating Temperature:	-20°C to 55°C
Electronics Sheathing:	Technomelt OM678
Electronics IP Rating:	IP68

Compatible P2-WS Wireless Transmitters

Part No.	Description
P2-WS102-0433	- Single Input Wireless Transmitter with Hirose Connector (433Mhz)
P2-WS103-0433	- Dual Input Wireless Transmitter with Hirose Connectors (433Mhz)
P2-WS102-2400	- Single Input Wireless Transmitter with Hirose Connector (2.4Ghz)
P2-WS103-2400	- Dual Input Wireless Transmitter with Hirose Connectors (2.4Ghz)

Compatible Accessories

Part No.	Description
P7-SA1010	- Intelligent Sensor Extension Cable - 4 meter

Doc: 106-10054-01 (DataSheet Intelligent Sensor Range)

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P3-DS320-HR

NTC Temperature Sensor -50°C to +70°C

Supplied with 1.5m 2 core arctic quality cable

For use with the D3 family of wireless base stations

Compatible with a full range of Intelligent Wireless Transmitters (supplied separately)



tek-troniks

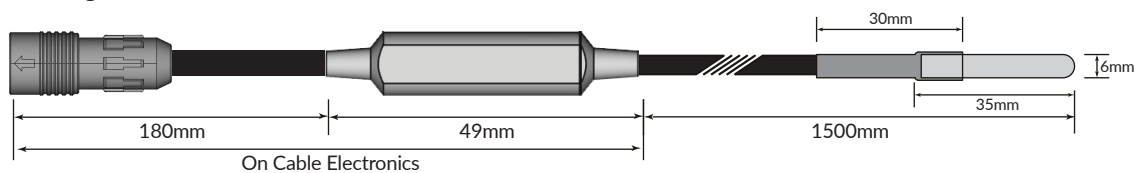
A general purpose temperature sensor for measuring air and contact temperature over the range of -50°C to +70°C. The NTC thermistor offers excellent stability and low drift over the lifetime of the sensor. The thermistor is housed within a 6mm diameter 316L grade stainless steel housing back filled with epoxy with a heat shrink sheath.

The arctic cable can withstand the full temperature range but should not be flexed at low temperatures – See P3-DS301/2 for alternatives.

Common uses: Fridges | Cold Rooms | Production Areas

This product can be supplied with a calibration certificate.

Product Drawing:



Technical Specifications:

Temperature Range:	-50°C to 70°C	On Cable Electronics
Accuracy:	Below -30° -30°C to 70°C	Connector IP Rating: IP67
Standard -	±0.8°C ±0.5°C	Connector: 3 pin male Hirose
Calibrated -	±0.5°C ±0.2°C	Operating Temperature: -20°C to 55°C
Thermistor:	NTC 5K R/T curve 8016/A01	Electronics Sheathing: Technomelt OM678
Weight:	40g	Electronics & Probe IP Rating: IP68
Sensor Cable:	1500mm 2 core arctic quality cable	
Probe Sheathing:	316L grade stainless steel	

Compatible P2-WS Wireless Transmitters

Part No.	Description
P2-WS102-0433	- Single Input Wireless Transmitter with Hirose Connector (433Mhz)
P2-WS103-0433	- Dual Input Wireless Transmitter with Hirose Connectors (433Mhz)
P2-WS102-2400	- Single Input Wireless Transmitter with Hirose Connector (2.4Ghz)
P2-WS103-2400	- Dual Input Wireless Transmitter with Hirose Connectors (2.4Ghz)

Compatible Accessories

Part No.	Description
P7-SA1009	- Probe Fixing Bracket (for pipework, etc)

Doc: 106-10054-01 (DataSheet Intelligent Sensor Range)

Visit: www.tek-troniks.com Call: 0115 9890090

Product Disclaimer:

The recommendations and suggestions regarding product application and use that are offered on Tek-troniks.com, in our product brochures, datasheets, or information provided by any employee or distributor, are a guide in the use of this product and are not a guarantee to their performance. Tektroniks reserve the right to alter specification of their products without prior warning or notification. Always read instruction manuals fully before installing any Tektroniks component.

P3-DS321-HR

NTC Temperature Sensor -50°C to +70°C

Supplied with 4m 2 core arctic quality cable

For use with the D3 family of wireless base stations

Compatible with a full range of Intelligent Wireless Transmitters (supplied separately)



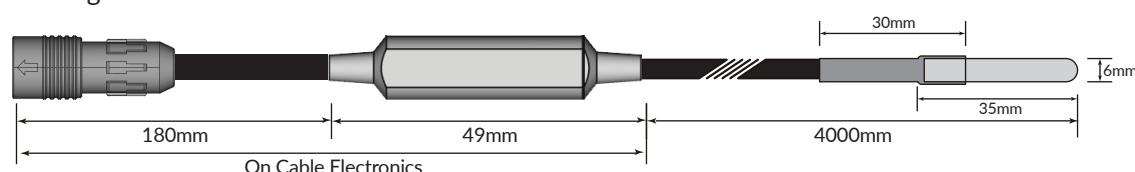
A general purpose temperature sensor for measuring air and contact temperature over the range of -50°C to +70°C. The NTC thermistor offers excellent stability and low drift over the lifetime of the sensor. The thermistor is housed within a 6mm diameter 316L grade stainless steel housing back filled with epoxy with a heat shrink sheath.

The arctic cable can withstand the full temperature range but should not be flexed at low temperatures – See P3-DS301/2 for alternatives.

Common uses: Fridges | Cold Rooms | Production Areas

This product can be supplied with a calibration certificate.

Product Drawing:



Technical Specifications:

Temperature Range: _____ -50°C to 70°C

Accuracy: _____ Below -30° -30°C to 70°C

Standard - ±0.8°C ±0.5°C

Calibrated - ±0.5°C ±0.2°C

Thermistor: _____ NTC 5K R/T curve 8016/A01

Weight: _____ 80g

Sensor Cable: _____ 4000mm 2 core arctic quality cable

Probe Sheathing: _____ 316L grade stainless steel

On Cable Electronics

Connector IP Rating: _____ IP67

Connector: _____ 3 pin male Hirose

Operating Temperature: _____ -20°C to 55°C

Electronics Sheathing: _____ Technomelt OM678

Electronics & Probe IP Rating: _____ IP68

Compatible P2-WS Wireless Transmitters

Part No.	Description
P2-WS102-0433	- Single Input Wireless Transmitter with Hirose Connector (433Mhz)
P2-WS103-0433	- Dual Input Wireless Transmitter with Hirose Connectors (433Mhz)
P2-WS102-2400	- Single Input Wireless Transmitter with Hirose Connector (2.4Ghz)
P2-WS103-2400	- Dual Input Wireless Transmitter with Hirose Connectors (2.4Ghz)

Compatible Accessories

Part No.	Description
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