IceSpy Notion Pro

Affordable wireless monitoring without compromise

Temperature Transmitters

The IceSpy Notion Pro series of temperature transmitter units are flexible, reliable and waterproof to IP65. Each unit has been designed to offer a comprehensive range of temperature measurement options for multiple applications across Food, Healthcare and Pharmaceuticals industries. There is a backwardly compatible version available for legacy systems.

The accompanying temperature probes range from -30°C to +50°C as standard to -200°C to +350°C using external probes. See below for further options.



Data is easily transferred wirelessly to the local Network Receiver for immediate and real-time data collection within the systems software. Each of the Notion Pro transmitter units have a radio range that can reach up to 300mtrs* using dependable wireless technology you can fully rely on. For added data security each transmitter has on-board logging capability for 5 days, data is downloaded via RFID.

The units are powered by a single 1.5V AA Lithium battery, which can be replaced by the user as and when required, battery life will be 2 years plus, with notification when a change is required.

*Over open ground.

Product Features

- Superior performance hardware with high accuracy sensors
- Vast range of units and sensors provide users with multiple temperature related applications
- Waterproof to IP65
- Easily accessible battery for user replacement, when required
- Calibration available up to UKAS standard
- · All transmitters incorporate a wall bracket
- Low power radio for long distance transmission
- Battery life 2 years plus
- Complies with BS EN 12830
- Complies with RoHS, EU directives and WEEE
- Carries CE Marking

Benefits

- Assists with HACCP, MHRA and other national regulatory requirements
- Reduces errors resulting from manuals checks
- Eliminate time spent taking manual readings
- Improve product quality with small nonintrusive transmitters
- Reduces the risk of damage to stock caused by temperature fluctuations

Sectors

- Food Manufacturing
- Food Processing
- Pharmaceutical Manufacturing
- Blood Banks
- Cold Rooms
- Pharmaceutical Storage
- · Food Storage and Distribution
- Laboratory Equipment

Always ask for a long-range signal strength test when buying any radio system.
We can prove ours to be unrivalled.



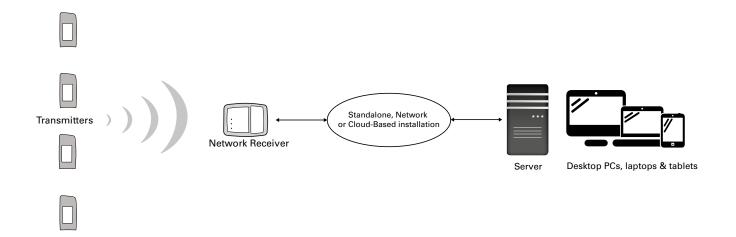




TECHNICAL SPECIFICATIONS

transmitters)	ons (applicable to all Notion Pro Temperature
Frequency:	433-434MHz band
Radio Protocol:	Frequency hopping for greater security
Radio Power:	Max 10mW, duty cycle >0.1%
Radio Range:	300mtrs over open ground
Software Required:	IceSpy Notion Pro
Case Material:	ABS
Operating Temp:	-30°C to +50°C
Storage Temp:	-40°C to +85°C
Power Supply:	12DCV via external universal power supply. Power supply included.
	(IMC recommend only IMC approved power supplies stock code:G422)
Battery Life:	2 years plus
Battery:	1.5V AA Lithium*1 1.5V AA Alkaline (Not recommended for use below -10°C) *2 *1 – IMC only recommend the approved and tested Energizer Ultimate LithiumL91 (IMC stock No. G301 *2 – Battery life will be reduced at low temperatures Duracell ID1500-10 (IMC stock No. 88705
Hardware Required:	- Network Receiver - Repeater (only required in special circumstances)* * Whether you need repeaters or not would be discussed with you in your signal strength test
Optional Hardware:	- ARB module (Alarm, RFID and Bluetooth) - SMS module

Schematic:



Disclaime

The information contained herein is believed to be reliable. The IMC Group Ltd is not responsible for any incorrect or incomplete information on this datasheet and the information or product may be changed without notice. Customers should obtain and verify the latest relevant information before placing orders for IMC products.











INTERNAL TEMPERATURE TRANSMITTER

PART NO. IN-TH001F1



Dimensions: Veight:	130 x 65 x 32mm (40 including mounting bracket) 130g including battery
Internal Sensor Type:	Semiconductor
Range:	-30°C to +50°C
Resolution:	0.1°C
Accuracy:	±0.5°C
IP Rating:	IP65
Typical Applications:	- Inside Small Fridges - Serve Over Counters - Sandwich Counters - Vaccine Fridges

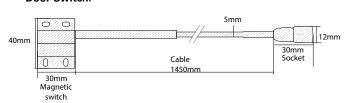
NP3000

INTERNAL TEMPERATURE TRANSMITTER AND DOOR SWITCH PART NO. IN-THD01F1



Dimensions:	165 x 65 x 35mm (40 including mounting bracket)
Weight:	150g including battery
nternal Sensor Type:	Semiconductor with door switch
Range:	-30°C to +50°C
Resolution:	0.1°C
Accuracy:	±0.5°C
P Rating:	IP65
Door Switch:	Magnetic reed switch (purchased separately)
Door Switch Cable:	3mtrs
Typical Applications:	- Inside Small Fridges - Vaccine Fridges - Door Status

Door Switch:







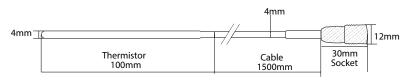
EXTERNAL TEMPERATURE TRANSMITTER

PART NO. IN-TH002F1



Dimensions:	165 x 65 x 35mm (40 including mounting bracket)
Weight:	150g including battery
External Probe Type:	Thermistor (purchased separately)
External Temp. Probe Range:	-40°C to +100°C
Resolution:	0.1°C
Accuracy:	±0.5°C
IP Rating:	IP65
Typical Applications:	- Walk in Fridges - Freezers - Walk in Freezers - Food Core Temperature

External Thermistor Probe:



NP3000

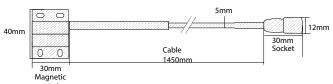
EXTERNAL THERMISTOR TRANSMITTER AND DOOR SWITCH PART NO. IN-THD02F1



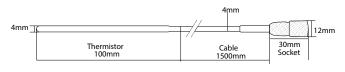
Dimensions: 165 x 65 x 35mm (40 including mounting bracket) Weight: 150g including battery External Probe Type: Thermistor (purchased separately) External Probe Temp Range: -40°C to +100°C 0.1°C Resolution: Accuracy: ±0.5°C IP Rating: IP65 Door Switch: Magnetic reed switch (purchased separately) Door Switch Cable: 3mtrs - Walk in Fridges Typical Applications: - Freezers - Walk in Freezers - Food Core Temperature - Door Status

INSTRUMENT SPECIFICATIONS

Door Switch:



External Thermistor Probe:







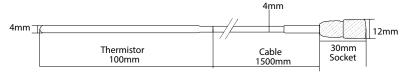
INTERNAL AND EXTERNAL TEMPERATURE TRANSMITTER

PART NO. IN-TH003F1



Dimensions:	165 x 65 x 35mm (40 including mounting bracket)
Weight:	150g including battery
Internal Sensor Type:	Semiconductor
Range:	-30°C to +50°C
Resolution:	0.1°C
Accuracy:	±0.5°C
External Probe Type:	Thermistor (purchased separately)
External Probe Temp. Range:	-40°C to + 100°C
Resolution:	0.1°C
Accuracy:	±0.5°C
IP Rating:	IP65
Typical Applications:	- Walk in Fridges - Freezers - Walk in Freezers - Internal and Ambient temperatures can be monitored

External Thermistor Probe:



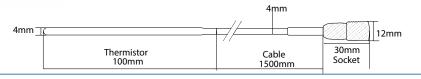
NP3000

DUAL EXTERNAL THERMISTOR TRANSMITTER PART NO. IN-TH004F1



INSTRUMENT SPECIFICATIONS Dimensions: 165 x 65 x 35mm (40 including mounting bracket) Weight: 150g including battery External Probe Type: Thermistor (purchased separately) External Probe Temp. Range: -40°C to + 100°C 0.1°C Resolution: Accuracy: ±0.5°C IP Rating: IP65 Typical Applications: - Walk in Fridges - Freezers - Walk in Freezers - Food Core Temperature - Two processes can be monitored with one unit There is a second probe option for the thermistor probe with a 3mtr or 3000mm cable

External Thermistor Probe:





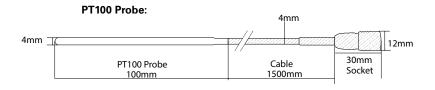


EXTERNAL PT100 TRANSMITTER

PART NO. IN-PT001F1



Dimensions:	165 x 65 x 35mm (40 including mounting bracket)
Weight:	150g including battery
External Probe Type:	4 Wire Class A PT100 (purchased separately)
External Probe Temp. Range:	-100°C to +200°C
Resolution:	0.1°C
IP Rating:	IP65
Instrument Accuracy:	±0.1°C
Probe Accuracy:	Class A = ± (0.15+0.0020* t)°C
Loop Calibration for unproved	accuracy
Typical Applications:	Ultra Cold Freezers (-80°C) Measurements requiring wider range and greater accuracy



NP3100

EXTERNAL PT100 TRANSMITTER AND DOOR SWITCH PART NO. IN-PTD01F1

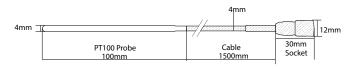


Door Switch: 40mm Cable 1450mm Magnetic switch

INSTRUMENT SPECIFICATIONS

165 x 65 x 35mm (40 including mounting bracket)
150g including battery
4 Wire Class A PT100
-100°C to +200°C
0.1°C
IP65
±0.1°C
Class A = ± (0.15+0.0020* t) °C
accuracy
Magnetic reed switch (purchased separately)
3mtrs
- Ultra Cold Freezers (-80°C) - Door Status

PT100 Probe:







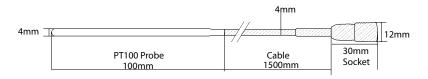
DUAL EXTERNAL PT100 TRANSMITTER

PART NO. IN-PT002F1



Dimensions:	165 x 65 x 35mm (40 including mounting bracket)
Weight:	150g inlouding battery
External Probe Type:	4 Wire Class A PT100 (purchased separately)
External Probe Temp. Range:	-100°C to +200°C
Resolution:	0.1°C
IP Rating:	IP65
Instrument Accuracy:	±0.1°C
Probe Accuracy:	Class A = ± (0.15+0.0020* t) °C
Loop calibration for unproved a	ccuracy
Typical Applications:	- Ultra Cold Freezers (-80°C) - Two Freezers can be monitored with on transmitter
The PT100 probe cable length is 3 cable or 5000mm.	mtrs or 3000mm also there is a second option with a 5 mtr

PT100 Probe:



NP3200

EXTERNAL TYPE T THERMOCOUPLE TRANSMITTER PART NO. IN-TT001F1



INSTRUMENT SPECIFICATIONS

Dimensions:	165 x 65 x 35mm (40 including mounting bracket)
Weight:	150g including battery
External Probe Type:	Ultra Premium Grade Teflon TypeT 22 AWG Thermocouple 3 mtrs* (purchased separately)
External Probe Temp. Range:	-200°C to +350°C
Resolution:	0.3°C
IP Rating:	IP53
Accuracy:	±0.5°C
Typical Applications:	Cryogenic Temperature Monitoring Ovens and cooking processes Water Baths

Thermocouple Type T Probe::







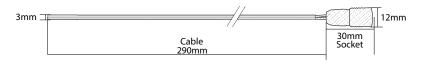
DUAL EXTERNAL TYPE T THERMOCOUPLE

PART NO. IN-TT002F1



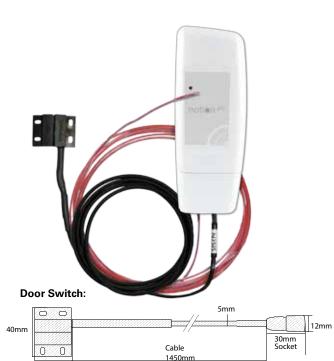
Weight:	150g including battery
External Probe Type:	External Ultra Premium Grade Teflon Type T 22 AWG Thermocouple 3mtrs* (purchased separately)
External Probe Temp. Range:	-200°C to +350°C
Resolution:	0.3°C
IP Rating:	IP53
Accuracy:	±0.5°C
Typical Application:	Cryogenic Temperature Monitoring Liquid Nitrogen Level Monitoring Ovens and cooking processes Water Baths
* Specified sensor is recommende available.	d for us in cryogenic applications. Other sensor types are

Thermocouple Type T Probe:



NP3200

EXTERNAL TYPE T THERMOCOUPLE TRANSMITTER AND DOOR SWITCH PART NO. IN-TTD01F1



Dimensions:	165 x 65 x 35mm (40 including mounting bracket)
Weight:	150g including battery
External Probe Type:	External Ultra Premium Grade Teflon Type T 22 AWG Thermometer 3mtrs* (purchased separately)
External Probe Temp. Range:	-200°C to +350°C
Resolution:	0.3°C
IP Rating:	IP53
Accuracy:	±0.5°C
Door Switch:	Magnetic reed switch (purchased separately)
Door Switch Cable:	3mtrs
Typical Applications:	- Cryogenic Temperature Monitoring - Ovens and cooking processes - Door Status
The thermocouple probe cable leng	on the state of 3000mm.

Thermocouple Type T Probe:

