

IN-PT001/002F1 transmitter

IceSpy NP3100 Series

Part of the **Hanwell IceSpy** NP3100 series, the IN-PT001/002 F1 is an external PT100 transmitter for multiple applications across food, healthcare and pharmaceutical industries.

Features

- ✓ Vast range of units and sensors provide users with multiple temperature related applications
- ✓ Superior performance hardware & high accuracy sensors
- ✓ Easily accessible battery for replacement by the user, when required
- ✓ Transmitters incorporate a wall bracket
- ✓ Low power radio for long distance transmission
- ✓ Up to 2 year battery life (dependent on use)
- ✓ Complies with RoHS, EU & WEEE directives and BS EN 12830
- ✓ Carries UKCA and CE Marking

Typical Applications

- Ultra cold freezers (-80°C)
- Measurements requiring wider range and greater accuracy

Always ask for a
long-range signal
strength test.



We can prove ours to
be unrivalled.



Radio
transmitter



Temperature

Photo shows IN-PT001F1 single channel unit

Instrumentation specification

Dimension (Excl. ancillaries)	165 x 65 x 35mm (40mm including mounting bracket)
Weight	150 grams (including battery)
Power supply	1 x 1.5V AA Lithium battery
Battery life	Up to 2 years (dependent on conditions of use)
Memory capacity	On board logging capability for 5 days
Nominal logging interval	10 minutes
Case material	ABS
IP Rating	IP65
Unit measuring range	-100°C to +200°C
Unit operating range	-90°C to +200°C - IN-PT143 or IN-PT100-WP probes -100°C to +200°C - IN-PT143-CAL probe
Unit storage temperature	-40°C to +85°C
System accuracy	With IN-PT143 or IN-PT100-WP probes -50°C to +200°C: $\pm(0.25+0.002 \cdot t)^{\circ}\text{C}$ Below -50°C: $\pm(0.4+0.005 \cdot t)^{\circ}\text{C}$ With IN-PT143-CAL probe: $\pm(0.25+0.002 \cdot t)^{\circ}\text{C}$
Long term drift	With IN-PT143 or IN-PT100-WP probes: < 0.1°C per year* With IN-PT143-CAL probe: < 0.05°C per year* <small>* Dependent on conditions of use</small>
Resolution	0.1°C

Radio transmitter functions

Frequency options	433-434MHz.
Radio power	10mW, duty cycle <0.1%
Radio range	300m over open ground
Nominal transmit interval	1 minute
Software required	W900 – Standard EMS Software Package W906 – Validated EMS Software Package *See EMS datasheet for further options
	IN-NR001F1 - Hanwell IceSpy Network Receiver
Hardware required	IN-RP001F1 - Hanwell IceSpy Repeater (Repeater only required in special circumstances which would be discussed with you following your Signal Strength Test)

Product codes

IN-PT001F1	Single channel
IN-PT002F1	Dual channel
G301	AA Lithium battery
G301-4	AA 1.5V Lithium Battery pack of 4

Probe specifications [Please refer to the Hanwell IceSpy Sensor datasheet](#)

Manufactured by Hanwell | Ellab



Version 4 - EC210035

Disclaimer: The information contained herein is believed to be reliable. Hanwell Solutions 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 Hanwell products.

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