

# IN-TT001/002 F1 transmitter

## IceSpy NP3200 Series



Part of the **Hanwell IceSpy** NP3200 series, the IN-TT001/002F1 is an external type T transmitter suitable 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 with BS EN 12830
- ✓ Carries CE and UKCA Marking

### Typical Applications

- Cryogenic Temperature monitoring
- Ovens and cooking processing
- Water baths



Photo shows IN-TT001F1 single channel

Instrumentation specification		Radio transmitter functions	
Dimension (Excl. ancillaries)	165 x 65 x 35mm (40mm including mounting bracket)	Frequency options	433-434MHz.
Weight	150 grams (including battery)	Radio power	10mW, duty cycle < 0.1%
Power supply	1 x 1.5V AA Lithium battery	Radio range	300m over open ground
Battery life	Up to 2 years (dependent on conditions of use)	Nominal transmit interval	1 minute
Memory capacity	On board logging capability for 5 days	Software required	W900 – Standard EMS Software Package W906 – Validated EMS Software Package *See EMS datasheet for further options
Nominal logging interval	10 minutes	Hardware required	<b>IN-NR001F1</b> - Hanwell IceSpy Network Receiver.  <b>IN-RP001F1</b> - Hanwell IceSpy Repeater (Repeater only required in special circumstances which would be discussed with you following your Signal Strength Test)
Case material	ABS	<b>Product codes</b>	
IP Rating	IP53	IN-TT001F1	Single channel
Instrument measuring range	-200°C to +200°C with J043 probe -200°C to +300°C with J044 probe	IN-TT002F1	Dual channel
Instrument operating range	-30°C to +50°C In a non-condensing RH environment	G301	AA Lithium battery
System accuracy (Transmitter and probe)	System accuracy with <b>J043</b> and <b>J044</b> probes: ±(0.5+0.004* t )°C above 125°C ±1°C between 0°C and 125°C ±1.5°C between -40°C and 0°C ±2°C between -65°C and -40°C ±(1+0.015* t )°C between -100°C and -65°C ±(1.5+0.015* t )°C between -200°C and -100°C	G301-4	AA 1.5V Lithium Battery pack of 4
Long term drift	< 0.1°C per year	Probe options	<a href="#">Please refer to the Hanwell IceSpy Sensor datasheet</a>
Instrument storage temperature	-40°C to +85°C		
Resolution	0.3°C above -100°C 0.5°C below -100°C		

**Note:** The Unit can be used with a thermocouple extension cable of up to 20 metres; however, when using thermocouples with longer wiring, users need to be aware of potential risks of electrical noise. These units are designed to provide low cost, accurate thermocouple temperature measurement. The thermocouple sensing element provides fast temperature response; however, the radio transmitter case is designed to operate in relatively stable temperature environments such as in an office, warehouse or factory. As a consequence, these units are not suitable for use where the transmitter case is subject to rapid temperature swings, such as in a blast freezer.

Manufactured by Hanwell | Ellab

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