

# 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 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
- ✓ Carries CE Marking
- ✓ Complies with BS EN 12830

### Typical Applications

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

| Instrumentation specification  |                                                                                                       |
|--------------------------------|-------------------------------------------------------------------------------------------------------|
| Dimension (Excl. ancillaries)  | 165 x 65 x 35mm (40 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       | 1 minute                                                                                              |
| Case material                  | ABS                                                                                                   |
| IP Rating                      | IP53                                                                                                  |
| Instrument measuring range     | -200°C to +300°C                                                                                      |
| Instrument operating range     | -30°C to +50°C in a non-condensing RH environment                                                     |
| Instrument accuracy            | +/- 0.5°C between 0°C to 350°C<br>+/- 1°C between -100°C to 0°C<br>+/- 1.5°C between -200°C to -100°C |
| Instrument storage temperature | -40°C to +85°C                                                                                        |
| Resolution                     | 0.3°C                                                                                                 |

*Note: Can be used with thermocouple extension cable up to 20 mtrs, 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. These units are not suitable for use where the transmitter case is subject to rapid temperature swings, such as in a blast freezer.*



Photo shows IN-TT001F1 single channel

| 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<br>W906 – Validated EMS Software Package<br>*See EMS datasheet for further options                                              |
| Hardware required           | IN-NR001F1 - Hanwell IceSpy Network Receiver<br><br>Repeater (only required in special circumstances which would be discussed with you in your signal strength test) |

| Product codes |                                                                     |
|---------------|---------------------------------------------------------------------|
| IN-TT001F1    | Single channel                                                      |
| IN-TT002F1    | Dual channel                                                        |
| G301          | AA Lithium battery                                                  |
| G301-4        | AA 1.5V Lithium Battery pack of 4                                   |
| Probe options | <a href="#">Please refer to the Hanwell IceSpy Sensor datasheet</a> |

Manufactured by Hanwell | Ellab   RoHS

Version 4 - EC200002

**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.

hanwell.com

Tel: +44 (0)1462 688070 | Email: sales@hanwell.com