

# IceSpy Notion Pro

## Temperature and Humidity (RH/T) transmitters

The IceSpy Notion Pro series of RH/T transmitter units are flexible, reliable and waterproof to IP65 except the RH sensor which requires exposure to the atmosphere. Each unit has been designed to offer a comprehensive range of temperature and humidity measurement options for multiple applications across Food, Healthcare and Pharmaceutical industries. There is a backwardly compatible version available for legacy systems.

notion<sup>pro</sup>

Affordable wireless monitoring without compromise



Data is easily transferred wirelessly to the local Network Receiver for immediate and real-time data collection within the systems cloud-based 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.

### 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 replacement by the user, 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

\*The transmitter body meets the criteria for IP65, however individual sensors will carry a different IP rating depending on the sensors physical properties.

### Benefits

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

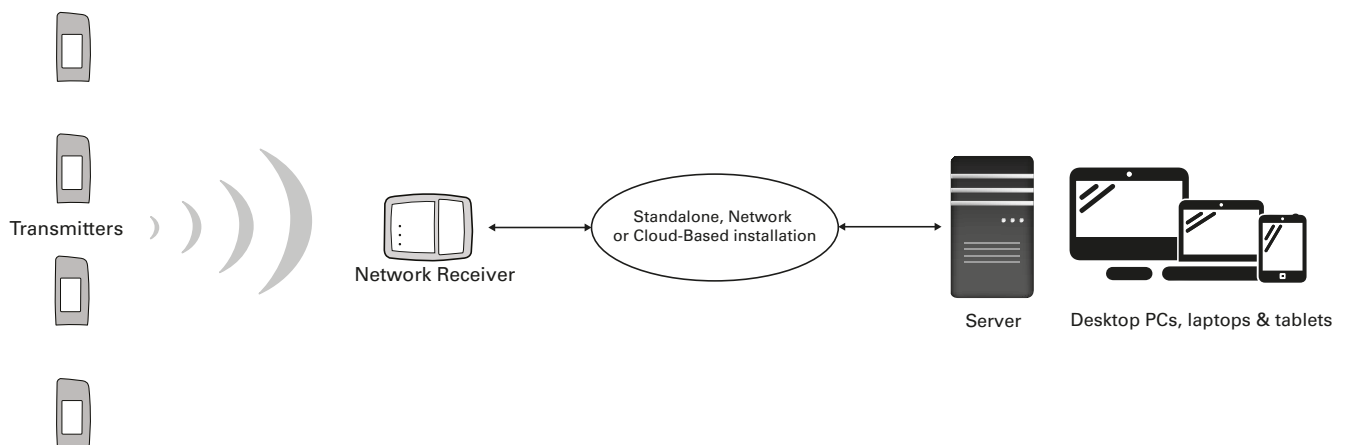
Always ask for a  
long-range signal  
strength test when  
buying any radio  
system.  
We can prove ours  
to be unrivalled.

### TECHNICAL SPECIFICATIONS

#### Radio Transmitter Functions (application to all Notion Pro Temperature transmitters)

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
Case Materials:	ABS
Operating Temp:	-30°C to +50°C
Storage Temp:	-40°C to +85°C
Power Supply:	12VDC via external universal power supply. Power supply included.  (IMC recommend an IMC approved power supply stock code: G422)
Software Required:	IceSpy Notion Pro
Battery life:	up to 2 years (dependent on format of data received)
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:



NP3300

### RH/T TRANSMITTER

PART NO. IN-RH001F1



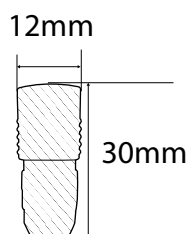
### INSTRUMENT SPECIFICATIONS

Dimensions:	130 x 65 x 32mm (40 including mounting bracket)
Weight:	150g including battery
RH Sensor Type:	External fixed capacitive polymer
Range:	0-100% RH non-condensing
Resolution:	0.1°C
Accuracy:	±3% RH
IP Rating:	IP65
	*The transmitter body meets the criteria for IP65, however individual sensors will carry a different IP rating depending on the sensors physical properties
Temperature Sensor Type:	Band gap (Internal with RH sensor)
Range:	-30°C to +50°C
Resolution:	0.1°C
Accuracy:	See chart
Typical Applications:	<ul style="list-style-type: none"> <li>- Monitoring drying conditions in food processing</li> <li>- Monitoring of maturing cheeses</li> <li>- Monitoring of stability chambers</li> <li>- Monitoring of storage facilities</li> </ul>

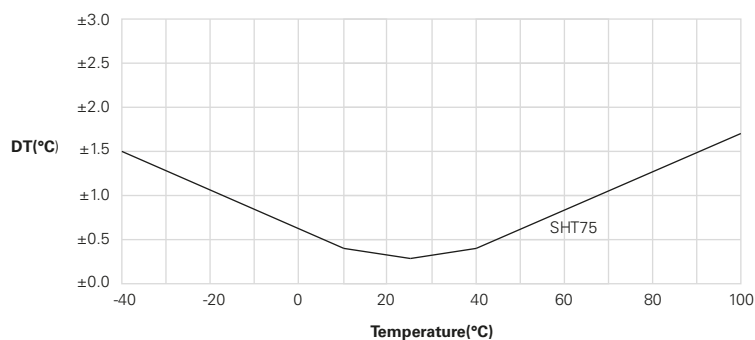
N.B Instrument operating range -20°C to +65°C in a non-condensing RH environment

#### Probe options:

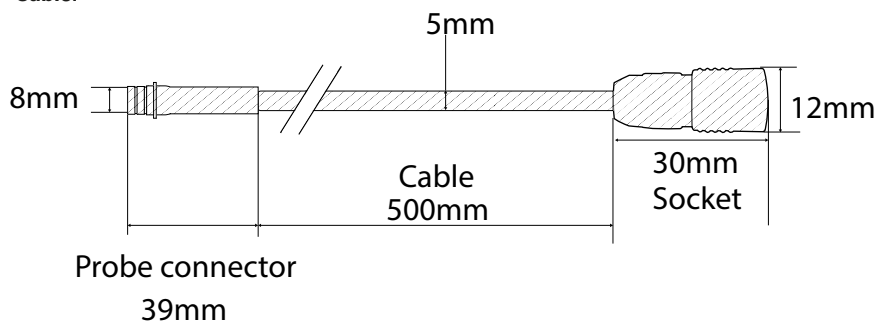
Comes with RHT probe attached



#### Accuracy Chart:



#### Cable:



#### Disclaimer

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.

Version 1