System Datasheet

notion lite
Simply temperature

5 Simple steps towards temperature compliance

The IceSpy Notion Lite system is the ideal temperature monitoring solution for retail food outlets, retail pharmacy stores and medical clinics. This easy-to-use system provides users with immediate access to real-time data and alarms, with audit ready reports available at the click of a button.

The accompanying temperature sensors measure -30°C to +50°C (-40°C to +70°C with external probe) and have been specifically designed for use across all retail fridges, freezers and chillers.

Additional sensor options combine temperature with door monitoring and event alarms. Damping blocks are also available to control the sensor response rate as required for example in food core temperature monitoring.

Temperature measurements and door alarms

Wireless real-time data collection and alerts 24/7

Intuitive cloud-based software with instant audit ready reports

Benefits

- Assists with national regulatory requirements such as HACCP
- Improve product quality and reduce product waste
- Reduce errors resulting from manual checks
- Eliminate time spent taking manual readings
- Alleviate audit stress with easy to access historical reports
- No software or computer hardware to maintain

Features

- System obtains data from up to 10 transmitters
- Temperature and door alarm options available
- Connects to local router, no IT intervention normally required
- User replaceable battery in all transmitters
- Wall mounted bracket incorporated into case designs
- Hosted cloud-based software
- User friendly installation and software
- Complies with RoHS and WEEE EU directives
- Carries CE Marking
- Complies with BS EN 12830

Applications

- Butchers
- Bakers
- Cafes and canteens
- Restaurants
- Retail chains
- Fishmongers
- High street pharmacies
- Doctors surgeries
- Hospital ward drug storage
- Veterinary surgeries

5 Simple steps towards temperature compliance

1. Check your kit contents
2. Set up your Cloud Receiver
3. Set up your transmitters
4. Create and register your online account
5. Position your hardware

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RADIO TRANSMITTER FUNCTIONS

(applicable to all Notion Lite temperature transmitters)
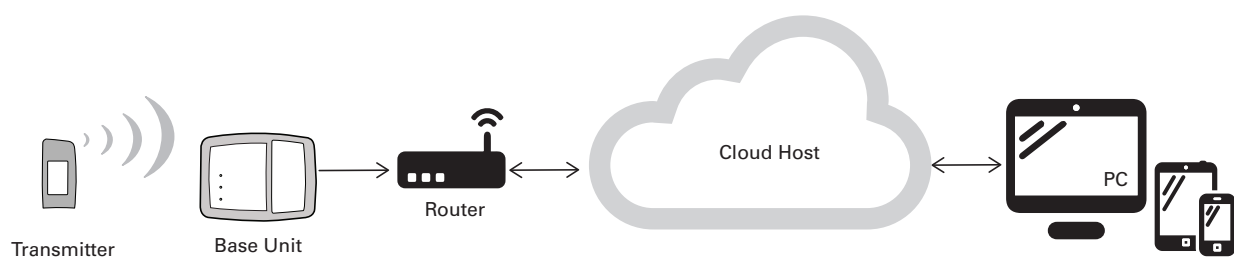
Frequency:	433-434 MHz band.
Radio Power:	Max 10mW, duty cycle <0.1%
Radio Range:	300mtrs over open ground
Case Materials:	ABS
Battery:	1.5V AA Lithium (IMC only recommend the approved and tested Energizer Ultimate Lithium L91 (IMC stock No.G301) 1.5V AA Alkaline (not recommended for use below 0°C). Duracell ID1500-10 (alkaline) (IMC stock No. 88705). Battery life will be reduced at low temperatures.
Battery Life:	2 years plus using recommended Lithium batterey (dependent on format of data received and operating environment)
Hardware Required:	- Cloud Receiver - Transmitters (Up to 10)

PREREQUISITES

OPERATING/VIEWING PREREQUISITES

- Internet access
- A router with a spare connection
- A desktop or laptop computer running Windows, Mac OS or Linux. A tablet can also be used to view data

SCHEMATIC

Transmitter   Base Unit   Router   Cloud Host   PC

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Notion Lite temperature transmitters

GENERAL INSTRUMENT SPECIFICATIONS

Dimensions:	Body Length: 128 x 64 x 33mm
Weight:	130g including battery
Power Supply:	Enclosed battery 1 x 1.5V AA Lithium (user replaceable)
Case Material:	ABS
IP Rating:	IP65

Options available:

NL300 – Internal Temperature Transmitter
Part No. IN-WT001F1

Internal Temp. Sensor:	Semiconductor
Internal Temp. Range:	-30°C to +50°C
Accuracy:	±0.5°C
Resolution:	0.1°C
Instrument Operating Temperature:	-30°C to +50°C
Instrument Storage Temperature:	-40°C to +85°C

NL300 – Internal Temperature Transmitter & Door Switch
Part No. IN-WT002F1

Internal Temp. Sensor:	Semiconductor
Internal Temp. Range:	-30°C to +50°C
Accuracy:	±0.5°C
Resolution:	0.1°C
Door switch:	Magnetic reed switch (purchased separately)
Door switch cable:	3 mtrs
Instrument Operating Temperature:	-30°C to +50°C
Instrument Storage Temperature:	-40°C to +85°C

NL300 – External Temperature Transmitter
Part No. IN-WT003F1

Unit Temperature Range:	-40°C to +70°C
External Temp. Sensor:	Curved matched thermistor (purchased serparately)
Probe Temp. Range:	-40°C to +70°C
Accuracy:	±0.5°C
Resolution:	0.1°C
Probe Cable Length:	1.5M
Instrument Operating Temperature:	-30°C to +50°C (-40°C to +70°C with external probe)
Instrument Storage Temperature:	-40°C to +85°C

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CB1

CB1 – CloudBase receiver and base unit
Part No. IN-WR001-F1

INSTRUMENT SPECIFICATIONS

Dimensions:	195 x 148 x 45mm
Weight:	450g
Battery Backup:	Rechargeable NiMH ensuring continued data capture in the event of mains fail
Case Material:	ABS
IP Rating:	IP53
Power Supply:	12VDC via external universal power supply. Power supply included. (IMC recommend only IMC approved power supplies stock code: G422)
Outputs:	Relay Common Alarm (NO or NC Contacts)
Operating Temperature range:	0°C to +40°C, humidity 0-90%
Storage Temperature Range:	-40°C to +85°C
Data:	Provides storage for data for up to 10 transmitters
	Data recorded for each sensor at 10 minute intervals.
	Data automatically downloaded to cloud-based software platform every 30 minutes.

SOFTWARE

Notion Lite Cloud-Based Software

- Graphical data
- Visual alarms
- Live data
- Door alarms
- Battery level
- Audit history
- Reports
- Account settings/user
- Comprehensive online help
- Email alarms
- SMS alarms

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