

**UK Distribution via**

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1000

DATA SHEET

# 1000

The RL1000 submersible temperature transmitter is a sensor for use in tough environments where there is a need to obtain accurate and reliable temperature data without using wiring. The transmitter itself is encased in a robust acetal cylinder to protect the electronics from damage. The high-stability temperature sensor can be supplied either hardwired to the transmitter body, or on a 350 mm silicone cable via plug and socket. The sensor can cover -25°C ...+65°C, -15°C...+100°C or +10°C...+150°C. The variants with internal or fixed remote sensors are completely sealed.

## Product Features

- Radio system is fully approved and exceeds all specifications enforced by relevant national authorities
- System complies with the European R&TTE Directive, which covers EMC and radio specifications.
- A 'battery low' indication is displayed via PC software, warning of the requirement for battery change prior to power loss
- Software flags alert in the event of total transmission failure

## Benefits

- No licence required
- Zero installation costs
- No wiring required
- Provides ongoing record of temperature
- Easy to use and perfect for mobile use without losing data integrity
- Full data history for comprehensive analysis
- Unrivalled radio technology

## Format

Data Logger	✗
Radio Logger	✓
GPRS	✗



## Radio Transmitter Functions

**Frequency Options:** A range of frequencies are available between 433-458MHz. Country specific regulations apply.

**Radio Power:** 10mW

**Radio Range:** 3km over open ground

**Battery Life:** Up to 12 months

**Software required:**

W700 – Standard Synergy Software Package

W706 – Validated Synergy Software Package

W400 – Legacy Radiolog Standard Software Package for Industrial

\*See Synergy datasheet for further options

**Hardware required:** CR2 – Controller

SR2 – Smart Receiver

REP – Repeater

**Accessories:** 88706 – 3.6V AA Lithium battery

*This product can be calibrated to your specifications, contact us for further details.*

### 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.

# In Building Monitoring



Refrigerators, freezers, wet incubators, water baths or other equipment can be freely moved about the laboratory and other cold-chain locations without losing data integrity. Simply place the sensor in the area to be covered and switch on.

These telemetry units are particularly useful for temporary assignments due to their absolute portability.

**Radio Transmission format:**  
(requires radio receiver)



## Parameters

-  Fridge temperature monitoring 2°C – 8°C
-  Freezer temperature monitoring



## Instrumentation Specification

**Dimensions:** 167x40mm diameter

**Weight:** (to be weighed)

**Power Supply:** 3.6 Volt AA Lithium battery

**Case Material:** Acetal



See next page for individual unit options or contact us to discuss your application.

# 1000

## Technical Specifications

Description	Sealed single Thermistor transmitters with 25mm long fixed probe -25°C to +60°C	Sealed single Thermistor transmitters with 170mm long fixed probe -25°C to +60°C	Sealed single Thermistor transmitters with fixed remote probe -35°C to +60°C	Sealed single Thermistor transmitters with fixed remote probe -15°C to +100°C	Sealed single Thermistor transmitters with fixed remote probe -10°C to +150°C	Sealed single Thermistor transmitters with 4pin Lemo socket -35°C to +60°C	Sealed single Thermistor transmitters with 4pin Lemo socket -15°C to +100°C	Sealed single Thermistor transmitters with 4pin Lemo socket -10°C to +150°C
Radio Transmitter Code	RL1001-434.075 (other frequencies available)	RL1002-434.075 (other frequencies available)	RL1003-434.075 (other frequencies available)	RL1004-434.075 (other frequencies available)	RL1005-434.075 (other frequencies available)	RL1006-434.075 (other frequencies available)	RL1007-434.075 (other frequencies available)	RL1008-434.075 (other frequencies available)
Probe options:						Option 1: J095-02 100mm x 4mm precision Thermistor probe, 3 mtrs cable with 4 pin plastic Lemo plug. Option 2: J097-02 100mm x 4mm precision Thermistor probe, 5 mtrs cable with 4 pin plastic Lemo plug.	Option 1: J095-02 100mm x 4mm precision Thermistor probe, 3 mtrs cable with 4 pin plastic Lemo plug. Option 2: J097-02 100mm x 4mm precision Thermistor probe, 5 mtrs cable with 4 pin plastic Lemo plug.	Option 1: J095-02 100mm x 4mm precision Thermistor probe, 3 mtrs cable with 4 pin plastic Lemo plug. Option 2: J097-02 100mm x 4mm precision Thermistor probe, 5 mtrs cable with 4 pin plastic Lemo plug.
Temperature Sensor	Precision Thermistor	Precision Thermistor	Precision Thermistor	Precision Thermistor	Precision Thermistor	Precision Thermistor	Precision Thermistor	Precision Thermistor
Range	-35°C to +60°C	-25°C to +60°C	-35°C to +60°C	-15°C to +100°C	10°C to +150°C	-35°C to +60°C	-15°C to +100°C	-10°C to +150°C
Accuracy	+/- 0.2°C	+/- 0.2°C	+/- 0.2°C	+/- 0.2°C	+/- 0.2°C	+/- 0.2°C	+/- 0.2°C	+/- 0.2°C
Resolution	+/- 0.1°C	+/- 0.1°C	+/- 0.1°C	+/- 0.1°C	+/- 0.1°C	+/- 0.1°C	+/- 0.1°C	+/- 0.1°C



Intelligent monitoring and control solutions:  
**In Buildings | In Transit | Outdoor/Remote**