

# 4000T Series

## Temperature monitoring



Data Logger



Temperature



Radio transmitter

The 4000T series of temperature data loggers and radio transmitters units are well established as the most flexible units on the market today. Each unit has been designed to be compatible with a wide range of temperature probes to provide accurate and reliable measurement specifically selected for the user's requirements.

Additionally, depending on the format required by the user, temperature data can either be downloaded directly to a local PC using a USB cable or wirelessly transmitted directly to a local PC for automatic and immediate notification and analysis. Most wireless devices include the logging facility to guarantee against data loss in the event of radio communication loss.

The units are powered by a single 3.6 Volt AA Lithium battery, which can be replaced by the user as and when required. The battery life will be dependent on the method of data collection, but can last up to 3 years, with notification of when a change is required.

### Product Features

- Data logging and radio transmitter formats
- High performance technology with accurate probes
- LCD display with data readings and battery life
- Superior performance hardware with high accuracy sensors
- Logger memory capacity 100,000 readings
- Easily accessible battery and USB socket
- Supports (optional) hidden wall brackets
- Low power radio for long distance transmission (Over 3km over open ground)
- Up to 3 years battery life (depending on format of data retrieval)
- Complies with RoHS, EU and WEEE directives
- Carries CE Marking

### Benefits

- Assists with national regulatory compliance
- Provides users with the tools to maintain a stable environment
- Reduces the risk of damage to stock caused by temperature fluctuations
- Radio transmitters eradicate errors caused by manual checks
- Vast range of units and probes provide users with multiple temperature related applications
- Easily calibratable hardware ensures accurate and reliable data for years

Always ask for a long-range signal strength test.

We can prove ours to be unrivalled.



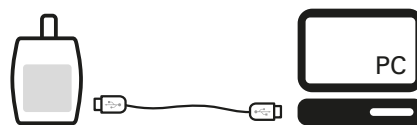
Data logger and radio formats are available within this range and each will contain the typical functions below:

## DATA LOGGER FUNCTIONS

Memory:	4MB Flash
Logging intervals:	Programmable from 10 seconds to 24 hours.
Record Capacity	100,000 records
PC Interface:	USB communications
Battery Life	Up to 3 years
Software required:	W200 - HanLog 4.5+ W300 - HanLog 4.5+ Validated software for: Industrial, Food, Pharma & Hospital
Accessories:	88706 – 3.6V AA Lithium battery Y055 – USB cable Y119 – Wall mount bracket <i>This product can be calibrated to your specifications, contact us for further details.</i>

*N.B Instrument operating range -20°C to +60°C in a non-condensing RH environment*

### Standalone data logger

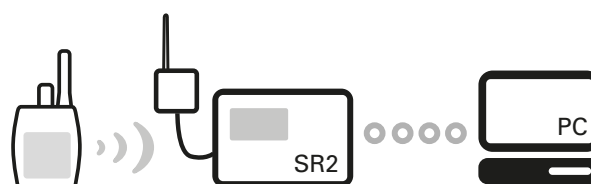


## RADIO TRANSMITTER FUNCTIONS

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 18 months
Software required:	W700 – Standard Synergy Software Package W706 – Validated Synergy Software Package *See Synergy datasheet for further options
Hardware required:	SR2 – Smart Receiver CR2 – Controller REP – Repeater
Accessories:	88706 – 3.6V AA Lithium battery Y119 – Wall mount bracket <i>This product can be calibrated to your specifications, contact us for further details.</i>

*N.B Instrument operating range -20°C to +60°C in a non-condensing RH environment (operating range dependant on sensor).*

### Radio system (requires radio receiver)



4001



### 4001 – Radio transmitter & data logger

Single channel Thermistor unit with 2 pin lemo socket. LCD display.

Data logger code: HL4001

Radio transmitter code: RL4001-434.075 (other frequencies are available)

#### Specification:

Dimensions:	110 x 80 x 35mm
Weight:	200 grams
Power supply:	3.6V AA Lithium battery
Case material:	ABS & PC
Memory capacity:	100,000 readings
IP Rating:	IP50

Product Probe Options	Option 1: Y300 Plug in temperature probe
	Option 2: J095-3-05 Remote temperature probe 3mtr cable
	Option 3: J095-5-05 Remote temperature probe 5mtr cable

External Temp. probe:	Precision Thermistor
Range:	-40°C to +60°C
Accuracy:	±0.1°C between -10°C to +40°C. ±0.3°C Outside these extremes
Resolution:	0.1°C

4002



### 4002 – Radio transmitter & data logger

Dual channel Thermistor unit with 2x 2 pin lemo socket. LCD display.

Data logger code: HL4002

Radio transmitter code: RL4002-434.075 (other frequencies are available)

#### Specification:

Dimensions:	110 x 80 x 35mm
Weight:	200 grams
Power supply:	3.6V AA Lithium battery
Case material:	ABS & PC
Memory capacity:	100,000 readings
IP Rating:	IP50

Product Probe Options	Option 1: Y300 Plug in temperature probe
	Option 2: J095-3-05 Remote temperature probe 3mtr cable
	Option 3: J095-5-05 Remote temperature probe 5mtr cable

External Temp. probe:	Precision Thermistor
Range:	-40°C to +60°C
Accuracy:	±0.1°C between -10°C to +40°C. ±0.3°C Outside these extremes
Resolution:	0.1°C

## 4005



Data logger code: HL4005

Radio transmitter code: RL4005-434.075 (other frequencies are available)

### Specification:

Dimensions:	110 x 80 x 35mm
Weight:	200 grams
Power supply:	3.6V AA Lithium battery
Case material:	ABS & PC
Memory capacity:	100,000 readings
IP Rating:	IP50

Product Probe Options	Option 1: Y300 Plug in temperature probe
	Option 2: J095-3-05 Remote temperature probe 3mtr cable
	Option 3: J095-5-05 Remote temperature probe 5mtr cable

External Temp. probe:	Precision Thermistor
Range:	0°C to +125°C
Accuracy:	±0.1°C between 0°C to +40°C ±0.3°C Outside these extremes
Resolution:	0.1°C

### 4005 – Radio transmitter & data logger

Single channel Thermistor unit with 2 pin lemo socket. 2K49 load resistor for high temperature range & LCD.

## 4006



Data logger code: HL4006

Radio transmitter code: RL4006-434.075 (other frequencies are available)

### Specification:

Dimensions:	110 x 80 x 35mm
Weight:	200 grams
Power supply:	3.6V AA Lithium battery
Case material:	ABS & PC
Memory capacity:	100,000 readings
IP Rating:	IP50

Product Probe Options	Option 1: Y300 Plug in temperature probe
	Option 2: J095-3-05 Remote temperature probe 3mtr cable
	Option 3: J095-5-05 Remote temperature probe 5mtr cable

External Temp. probe:	Precision Thermistor
Range:	0°C to +125°C
Accuracy:	±0.1°C between 0°C to +40°C ±0.3°C Outside these extremes
Resolution:	0.1°C

### 4006 – Radio transmitter & data logger

Dual channel Thermistor unit with 2 pin lemo socket. 2K49 load resistor for high temperature range & LCD.

4007



Data logger code: HL4007

Radio transmitter code: RL4007-434.075 (other frequencies are available)

### Specification:

Dimensions:	110 x 80 x 35mm
Weight:	200 grams
Power supply:	3.6V AA Lithium battery
Case material:	ABS & PC
Memory capacity:	100,000 readings
IP Rating:	IP50
Product Probe Options:	N/A
Range:	-20°C to +60°C
Accuracy:	+/- 0.1°C between -10°C to +40°C +/-0.3°C outside these extremes
Display resolution:	0.1°C

### 4007 – Radio transmitter & data logger

Single channel thermistor unit . Fitted with internal temperature sensor and LCD.

4401



Data logger code: HL4401

Radio transmitter code: RL4401-434.075 (other frequencies are available)

### Specification:

Dimensions:	110 x 80 x 35mm
Weight:	200 grams
Power supply:	3.6V AA Lithium battery
Case material:	ABS & PC
Memory capacity:	100,000 readings
IP Rating:	IP50
Accuracy:	±0.1°C
Resolution:	0.1°C
Product Probe Options	<b>Option 1: J094-3-01</b> 4-wire PT100 probe, 3mtr cable with 5-pin lemo plug <b>Option 2: J094-5-01</b> 4-wire PT100 probe, 5mtr cable with 5-pin lemo plug
External Temp. probe:	4 wire PT100
Range:	-200°C to +110°C
Probe Accuracy:	Class A = ± (0.15+0.0020* t ) °C

### 4401 – Radio transmitter & data logger

Single channel 4 wire PT100 unit. Fitted with 5 pin metal lemo socket for temperature sensor and LCD.

4402



Data logger code: HL4402

Radio transmitter code: RL4402-434.075 (other frequencies are available)

### Specification:

Dimensions:	110 x 80 x 35mm
Weight:	200 grams
Power supply:	3.6V AA Lithium battery
Case material:	ABS & PC
Memory capacity:	100,000 readings
IP Rating:	IP50
Accuracy:	±0.1°C
Resolution:	0.1°C

Product Probe Options	Option 1: J094-3-01 4-wire PT100 probe, 3mtr cable with 5-pin lemo plug
	Option 2: J094-5-01 4-wire PT100 probe, 5mtr cable with 5-pin lemo plug

External Temp. probe:	4 wire PT100
Range:	-200°C to +110°C
Probe Accuracy:	Class A = ± (0.15+0.0020* t ) °C

### 4402 – Radio transmitter & data logger

Dual channel 4 wire PT100 unit. Fitted with 2 x 5 pin metal lemo socket with temperature sensors and LCD.

4406



Radio transmitter code: RL4406-434.075 (other frequencies are available)

### Specification:

Dimensions:	110 x 80 x 35mm
Weight:	200 grams
Power supply:	3.6V AA Lithium battery
Case material:	ABS & PC
Memory capacity:	100,000 readings
IP Rating:	IP50
Accuracy:	±0.1°C
Resolution:	0.1°C

Product Probe Options	Option 1: J182-05 PT1000 probe with 3 mtr cable
	Option 2: 183-05 PT1000 probe with 5 mtr cable

External Temp. probe:	Class A PT1000 Probe
Range:	-90°C to +110°C
Probe Accuracy:	Class A = ± (0.15+0.0020* t ) °C
Door Switch:	J219 Door Switch (purchased separately)
Door Switch Cable:	3 mtrs

### 4406 – Radio transmitter

PT1000 transmitter with socket for door sensor

#### 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.

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