

4000T

Temperature monitoring



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, see below)
- 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.



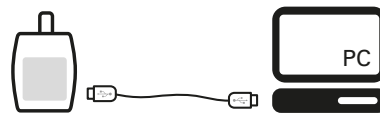
Data logger and radio formats are available within this range and each will contain the typical functions below:

DATA LOGGER FUNCTIONS

Memory:	256K EEPROM
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

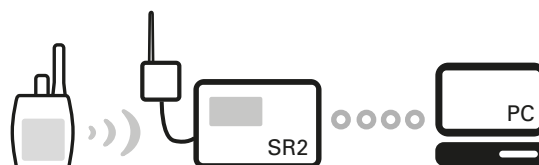


RADIO TRANSMITTER FUNCTIONS

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)

Instrumentation 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

Technical Specification:

Product Probe Options	Option 1: Y300 Plug in temperature probe Option 2: J095-05 Remote temperature probe 3mtr cable Option 3: J097-05 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)

Instrumentation 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

Technical Specification:

Product Probe Options	Option 1: Y300 Plug in temperature probe Option 2: J095-05 Remote temperature probe 3mtr cable Option 3: J097-05 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



4005 – Radio transmitter & data logger

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

Data logger code: HL4005

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

Instrumentation 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

Technical Specification:

Product Probe Options	Option 1: Y300 Plug in temperature probe Option 2: J095-05 Remote temperature probe 3mtr cable Option 3: J097-05 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



4006 – Radio transmitter & data logger

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

Data logger code: HL4006

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

Instrumentation 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

Technical Specification:

Product Probe Options	Option 1: Y300 Plug in temperature probe Option 2: J095-05 Remote temperature probe 3mtr cable Option 3: J097-05 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

4007



4007 – Radio transmitter & data logger

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

Data logger code: HL4007

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

Instrumentation 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

Technical Specification:

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

4012



4012 – Radio transmitter

Thermistor transmitter with socket for external temperature sensor and input for door activation, including conformal coating.

Radio transmitter code: RL4012-434.075 (other frequencies are available)

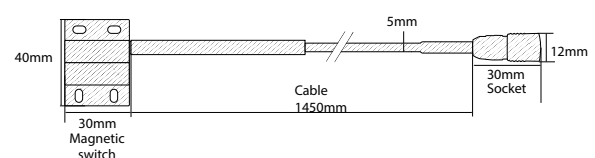
Instrumentation Specification:

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

Technical Specification:

Product Probe Options	Option 1: Y300 Plug in temperature probe Option 2: J095-05 Remote temperature probe 3mtr cable Option 3: J097-05 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
Door Switch:	Magnetic reed switch (purchased separately)
Door Switch Cable:	3 mtrs

Door Switch:



4301



4301 – Radio transmitter & data logger

Single channel 3-wire PT100 unit fitted with 5 pin-lemo socket for temperature sensor and LCD.

Data logger code: HL4301

Radio transmitter code: RL4301-434.075 (other frequencies are available)

Instrumentation 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

Technical Specification:

Product Probe Options	PT100 Client to supply probe
External Temp. probe:	3 wire PT100
Range:	-100°C to +110°C
Accuracy:	±0.1°C
Resolution:	0.1°C

4302



4302 – Radio transmitter & data logger

Dual channel 3-wire PT100 unit fitted with 2 x 5 pin-lemo metal socket for temperature sensor and LCD.

Data logger code: HL4302

Radio transmitter code: RL4302-434.075 (other frequencies are available)

Instrumentation 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

Technical Specification:

Product Probe Options	PT100 Client to supply probe
External Temp. probe:	3 wire PT100
Range:	-100°C to +110°C
Accuracy:	±0.1°C
Resolution:	0.1°C

4401



4401 – Radio transmitter & data logger

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

Data logger code: HL4401

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

Instrumentation 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

Technical Specification:

Product Probe Options	PT100 4-wire PT100 probe, 3mtr cable with 5-pin lemo plug Option 2: J099-01 4-wire PT100 probe, 5mtr cable with 5-pin lemo plug
External Temp. probe:	4 wire PT100
Range:	-200°C to +110°C
Accuracy:	±0.1°C
Resolution:	0.1°C

4402



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.

Data logger code: HL4402

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

Instrumentation Specification:

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

Technical Specification:

Product Probe Options	Option 1: J094-01 4-wire PT100 probe, 3mtr cable with 5-pin lemo plug Option 2: J099-01 4-wire PT100 probe, 5mtr cable with 5-pin lemo plug
External Temp. probe:	4 wire PT100
Range:	-200°C to +110°C
Accuracy:	±0.1°C
Resolution:	0.1°C

Disclaimer

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