

Hanwell

CONTINUOUS MONITORING
SYSTEMS

Why Hanwell?

The 4000 series of temperature data loggers and radio transmitter 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.

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



Synergy is a fully validatable software platform, compliant to FDA 21 CFR Part 11 and GAMP5 that brings all the Hanwell hardware together and takes environmental monitoring data display to another level.



Synergy 

All transmitters are configured through Synergy and all data is recorded in the secure Synergy database. Full data collection with interactive graphs, tables and plan views enable users to slice historical data in multiple ways for advanced analysis as well as set alarms and report on alarms generated.

Synergy user access levels can be managed through customisable groups. Managing environmental data has never been so easily accessible to so many – whatever and whenever you need it – from wherever you are.

Synergy Software

STANDARD SOFTWARE

- W700 Synergy Basic Software includes 2 sites, 2 sensor groups and 5 users
- W702 Additional 5 users (Works with W700 or W706)
- W703 Additional 10 users (Works with W700 or W706)
- W704 Unlock code for unlimited sites and sensor groups. (Works with W700A or W700B). This is included in W701 and if previously applied should be de-mounted before applying W701 licence.

VALIDATED SOFTWARE

- W706 Synergy 21 CFR Part 11 validated software (licence required to unlock features)
- W701 Synergy 21 CFR Part 11 Software licence. (Only works with W706A or B)
- W707 Synergy 21 CFR Part 11 Completed software Qualification documentation
- W708 Synergy 21 CFR Part 11 Hardware blank IQ & OQ document templates

SR2



The SR2 is Hanwells network enabled smart receiver and can receive data from over 250 transmitters with onboard 512kb memory.

Product codes:
SR2-E-P4
RX-434.075 (Receiver)

Dimensions	300 x 200 x 85 mm
Weight	1.2kg
Power Supply	110V AC or 240V AC. On-board 12V battery back-up supplying 2.3A/hr
Case Material(s)	Powder coated mild steel
Alarm Outputs	1 x nominal 12V, 2 x changeover relays (energised when no alarms exist)
MSBUS	4 core signal cable
Frequency options	A range of frequencies are available between 433-458MHz. Country specific regulations apply.
Radio power	10mW
Radio range	3km over open ground

SMS Module



The SMS Module is an optional add-on to provide out of condition and/or system alarms generated from the wireless monitoring system via SMS text message.

Product code: IN-TA001

Dimensions	195 x 148 x 45mm
Weight	450g
Case materials	ABS
IP rating	IP53
Operating Temp	0°C to +40°C
Storage Temp	-20°C to +50°C
Power Supply	12V regulated power supply
Battery Back Up	24 hours
Battery Type	7 x 1.5V NiMH Pack
Communications	TCP/IP Via RJ45 connector

4001



Radio transmitter & data logger
Single channel
Thermistor unit with 2 pin lemo socket.
LCD display.

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

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

4002



Radio transmitter & data logger
Dual channel
Thermistor unit with 2x 2 pin lemo socket.
LCD display.

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

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

4401



Radio transmitter & data logger
Single channel 4 wire PT100 unit.
Fitted with 5 pin metal lemo socket for
temperature sensor and LCD

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

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.

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

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

4115



Radio transmitter & data logger RH/T unit
with C-Sense external temperature and
EE07-02 RH probes

Radio transmitter code: RL4115-434.075
(other frequencies are available)

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
Add Your Probe	Option 1: Y300 Short precision Thermistor probe Option 2: Y300-80 Long (80mm) precision Thermistor probe Option 3: J140 EE07-02 RH/T probe Y421-3 RH remote lead 3mtrs Y421-5 RH remote lead 5m Option 4: J095-3-05 100mm x 4mm precision Thermistor probe, 3 mtr cable Option 5: J095-5-05 100mm x 4mm precision Thermistor probe, 5 mtr cable
External Temp. Probe	Precision Thermistor
Range	-40°C to +60°C
Accuracy	+/- 0.1°C between -20°C to +50°C +/-0.3 elsewhere
Resolution	0.1°C
Humidity Probes	Capacitive Polymer
Recommended Range	0-100%RH non condensing
Accuracy	±2% (0-90%) ±3% (90-100%)
Temp Dependence	< (0.025 + 0.0003 x RH) [%RH/°C]
Resolution:	0.1% RH

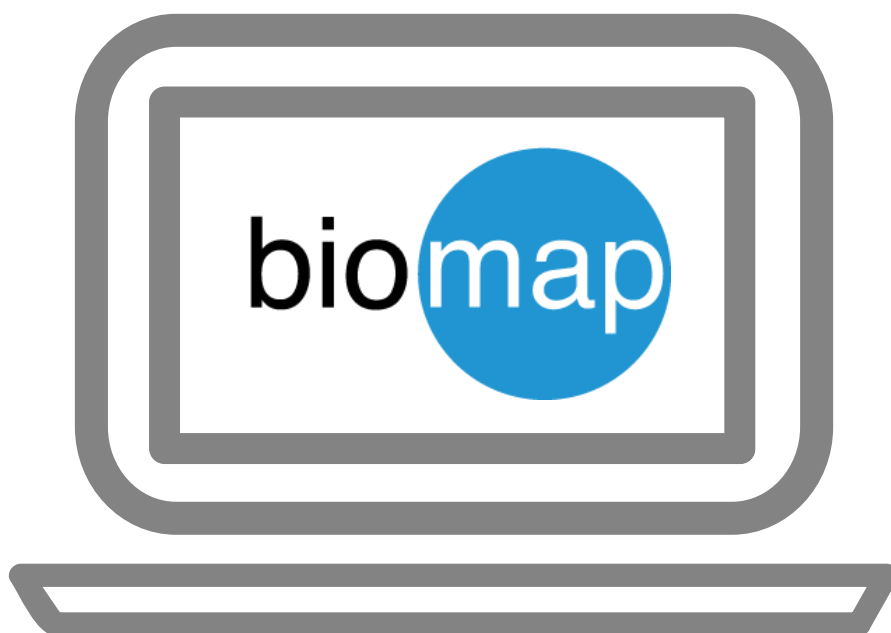
ML4109



Part of the Hanwell ML4000RHT Series, the
ML4109 outdoor RH/T radio transmitter
provides high accuracy using EE07 probe.

Radio transmitter code: ML4109-OD-
434.075 (other frequencies are available)

Dimensions	150 x 88 x 50mm
Weight	485 grams
Power Supply	3.6 Volt AA Lithium battery
Case Material	ABS & PC
Memory Capacity	100,000 readings
IP Rating	IP65 SPECIFICATIONS
Data logger code	ML4109-OD
Internal Temp. probe	EE07 probe (11.8mm x 83mm)
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
External Temp. probe	Pt1000 (tolerance class A)
Range	-40°C to +60°C
Accuracy	±0.1°C at 20°C
Resolution	0.1°C
Humidity probes	Capacitive Polymer
Recommended range	0-100% RH non-condensing
Accuracy	±2% (0-90%) ±3% (90-100%)
Temp. dependance	< (0.025 + 0.0003 x RH) [%RH/°C]



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