

# 4000LUX/UV RANGE

## Light & UV Monitoring



The 4000LUX/UV series of data loggers and radio transmitters enable users to measure light (LUX) and ultraviolet (UV). The 4000 series of light and UV data loggers and radio transmitters allow monitoring of a site, with real time alarm notifications and historical analysis of data.



Measurements can be taken of the proportion of UV present ( $\mu\text{W}/\text{lumen}$ ), the total amount of UV ( $\text{mW}/\text{M}^2$ ), and the amount of visible light (LUX). LUX is measured in the range 10 to 5000 LUX. This is sufficient for environments where minimal LUX levels need to be monitored. See below:

### Product Features

- Data logging and radio transmitter formats
- Memory capacity 100,000 readings
- High performance technology with accurate connecting sensors
- Low power radio for long distance transmission (Over 3km over open ground)
- User accessible battery and USB socket
- Slots in back of unit for wall brackets
- Complies with RoHS, EU and WEEE directives
- Carries CE Marking

### Benefits

- Reduce damage caused by natural and artificial light and UV
- Minimise staff exposure to seasonal affective disorder
- Reduce staff sickness by monitoring LUX levels
- Improve work efficiency with optimised LUX levels
- Can be easily integrated into an existing Hanwell system

#### Locations

General rooms

#### LUX requirements\*

200-800

Workshop

800-1100

General Bacteriology rooms

500-1000

Blueprints

500-1000

Microscope reading rooms

200-500

General reading (screens, handwriting, chalkboards)

50-1000

Laboratories

500-1000

*\*These are a guideline only. Users should follow their own company guidelines and recommendations.*

Always ask for a long-range signal strength test.

We can prove ours to be unrivalled.



## DATA LOGGER AND RADIO TRANSMITTER FUNCTIONS

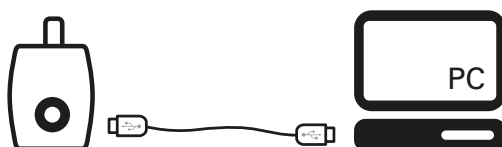
Data logger and Radio formats are available within this range and each will contain the typical functions below:

### 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+
Accessories:	G129 – 3.6V AA Lithium battery Y055 – USB cable Y119 – Wall mount bracket*

*This product can be calibrated to your specifications, contact us for further details.  
N.B Instrument operating range -20°C to +65°C in a non-condensing RH environment*

### Standalone data logger

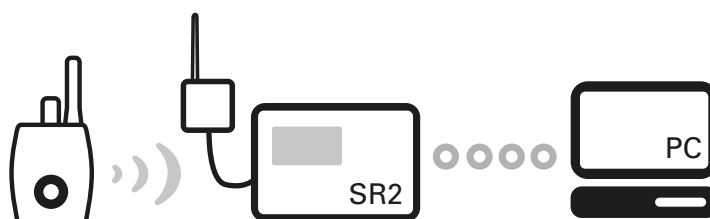


### RADIO TRANSMITTER FUNCTIONS

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:	CR2 – Controller SR2 – Smart Receiver REP – Repeater
Accessories:	88706 – 3.6V AA Lithium battery Y119 – Wall mount bracket*

*This product can be calibrated to your specifications, contact us for further details.  
N.B Instrument operating range -20°C to +65°C in a non-condensing RH environment*

### Radio system (requires radio receiver)



#### 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.  
Version 2

## ML4701



Data logger code: ML4701

Radio transmitter code: ML4701-434.075 (other frequencies are available)

### SPECIFICATIONS

#### 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

#### Lux Sensor Specification:

LUX Sensor	Photometric diode detector
Visible Wavelength	400 to 700nm
Visible Range	10 to 5000 LUX
Colour Response	Human eye (Match to CIE Curve = 5%)
Linearity	1%
Angular Response	Cosine

### ML4701 – Radio transmitter & data logger

LUX unit fitted with onboard LUX Sensor

## ML4702



Data logger code: ML4702

Radio transmitter code: ML4702-434.075 (other frequencies are available)

### SPECIFICATIONS

#### 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

#### Lux Sensor Specification:

LUX Sensor	Photometric diode detector
Visible Wavelength	400 to 700nm
Visible Range	10 to 5000 LUX
Colour Response	Human eye (Match to CIE Curve = 5%)
Linearity	1%
Angular Response	Cosine

### ML4702 – Radio transmitter & data logger

LUX unit fitted with remote LUX probe

## ML4703



### ML4703 – Radio transmitter & data logger

LUX & UV unit fitted with onboard Sensors

Data logger code: ML4703

Radio transmitter code: ML4703-434.075 (other frequencies are available)

## SPECIFICATIONS

### 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

### Lux Sensor Specification:

LUX Sensor	Photometric diode detector
Visible Wavelength	400 to 700nm
Visible Range	10 to 5000 LUX
Colour Response	Human eye (Match to CIE Curve = 5%)
Linearity	1%
Angular Response	Cosine

### UV Sensor Specification:

UV Sensor	UV silicon carbide
UV Power Range	20 to 2000 mW/m2
UV Wavelength Range	215 to 365nm
Linearity	1%
Angular Response	Cosine

## ML4704



### ML4704 – Radio transmitter & data logger

LUX & UV unit fitted with remote probes

Data logger code: ML4704

Radio transmitter code: ML4704-434.075 (other frequencies are available)

## SPECIFICATIONS

### 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

### Lux Sensor Specification:

LUX Sensor	Photometric diode detector
Visible Wavelength	400 to 700nm
Visible Range	10 to 5000 LUX
Colour Response	Human eye (Match to CIE Curve = 5%)
Linearity	1%
Angular Response	Cosine

### UV Sensor Specification:

UV Sensor	UV silicon carbide
UV Power Range	20 to 2000 mW/m2
UV Wavelength Range	215 to 365nm
Linearity	1%
Angular Response	Cosine