

INSTALLATION & MAINTENANCE MANUAL

PRECW4 / PRECW5 / MODEMKIT MODEMKIT2 / MODMWS

GENERAL INSTRUCTIONS

These instructions should be read carefully and retained after installation by the end user for future reference and maintenance.

These instructions should be used to aid installation of the following products: PRECW4 / PRECW5 / MODEMKIT / MODEMKIT2 / MODEMWS

SAFETY

- These products must be installed in accordance with the latest edition of the IEE Wiring Regulations (BS7671) and current Building Regulations. If in any doubt, consult a qualified electrician
- · Please isolate mains prior to installation or maintenance
- Check the total load on the circuit (including when this luminaire is fitted) does not exceed
 the rating of the circuit cable, fuse or circuit breaker
- Please note the IP (Ingress Protection) rating of this product when deciding the location for installation
- Do not overload this accessory or subject it to conditions outside its rating
- These products are for indoor use only
- PRECWx products are Class I and must be earthed
- MODEMKIT / MODEMKIT2 are Class II doubled insulated
- These products are IP20 rated

INSTALLATION

Note - Microwave sensors may not be suitable for all installations, for example enclosed spaces, as they are able to detect movement through non-metallic surfaces like plasterboard and thin doors.

- · Provide power to the required point of installation
- With the aid of a flat-head screwdriver, carefully unlock the locking mechanism on the end caps and lift slightly. Place the screwdriver between the metal housing and diffuser near the ends and lift until loose (see Fig. 1).

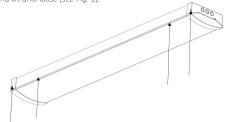


Fig. 1

 Mark the location of the fixing holes and drill the holes ensuring not to infringe with any gas/water pipes or electrical cables. The fitting can also be mounted over conduit boxes: for distance between fixing centres please see below:

PRODUCT CODE	DISTANCE (mm)
PRECW4	600
PRECW5	600

Fig. 2

- Fix the base to a suitable solid surface using the screws provided
- Connect to the mains supply ensuring the correct polarity is observed: L Live, L1 –
 Emergency Live (brown), E Earth (green/yellow), N Neutral (blue) (see Fig. 2). Two
 cables can be inserted into the push-fit terminal block in order to achieve loop-in/loop
 out wiring

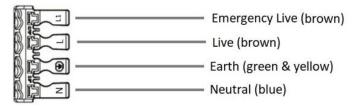
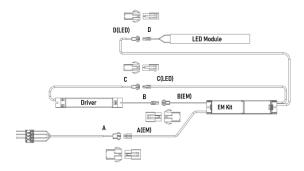


Fig. 3

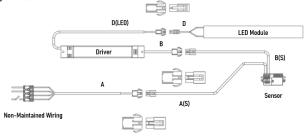
MODEMKIT / MODEMKIT2

- . Install by using the clips to secure them in place
- Luminaire with emergency mode and no sensor connected, connect the connectors labelled A from the terminal block to A(EM) from the emergency module, connector labelled B from the driver to B(EM) emergency module, connector labelled C(LED) from emergency module to C LEDs and connectors labelled (DLED) from emergency module to D I FDs
- Ensure that the battery is connected by opening the emergency module pack and the battery connector on the PCB
- Ensure LED indicator is connected, mounted on holder located on end cap correctly and visible from outside
- Select the Emergency function, Manual or Self-test, via the switch on the front of the kit (MODEMKIT2 only)
- Refer to MODEMKIT2 for operation of the self-test functions

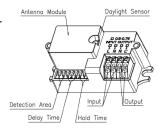


MODMWS

- Install by using the clips to secure them in place
- Luminaire with no emergency mode and sensor connected, connect the connectors labelled A
 from the terminal block to A(S) from the sensor and connector labelled B from the driver to
 B(S) from sensor



SENSOR LAYOUT

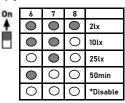


DIP SWITCH SETTINGS

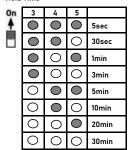
Detection area



Daylight Sensor



Hold Time

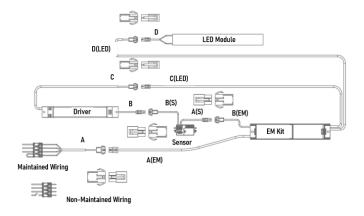


This is the time period the lamp remains at 100% after no motion is detected

When set to *Disable*, the daylight sensor will switch the lamp on when motion is detected regardless of the ambient light level

MODEMKIT/ MODEMKIT2 and MODMWS

- Install the MODEMKIT / MODEMKIT2 by using the clips to secure them in place
- Luminaire with emergency mode and sensor connected, connect the connectors labelled A
 from the terminal block to A(EM) from the emergency module, connector labelled A(S)
 from sensor to connector labelled B(EM) from emergency module, connector labelled B
 from the driver to B(S) from sensor, connector labelled C(LED) from emergency module to
 C LEDs and connectors labelled D(LED) from emergency module to D LEDs
- Ensure that the battery is connected which is within the emergency module and the battery connector on the PCB
- Ensure LED indicator is connected, mounted on holder located on end cap correctly and visible from outside
- Select the Emergency function, Manual or Self-test, via the switch on the front of the kit (MODEMKIT2 only)
- Refer to MODEMKIT2 for operation of the self-test functions



NOTE: The **MODEMKIT / MODEMKIT2** and **MODMWS** are sold separately

- Refasten the cover
- Switch on and check for correct operation ensuring the green indicator LED is illuminated
- We recommend, on commissioning the installation, a minimum charge period of 24 hours before carrying out an emergency duration test
- The test button can be used to simulate a power failure to test the lamp and battery operation. This can be used to carry out monthly functional testing providing the battery holds at least a small charge

MODEMKIT2 - SELF-TEST FUNCTION

Commissioning

- Commissioning takes place by connecting the battery and then the un-switched supply. The battery must be connected first
- The green LED indictor will immediately flash 1 x second to indicate that there is a pending duration test
- A functional test will occur at 5 minutes after commissioning to allow 5 minutes for battery charging to ensure there is some charge
- A duration test will occur at between 24 48 hours after commissioning
- Any faults found in the functional and duration testing will be reported by the LED indicator as detailed below
- Disconnecting the un-switched supply and the battery resets the emergency module, clears all faults and a re-commission when the battery and then the un-switched supply are reconnected
- If the un-switched supply of an emergency lighting circuit is switched ON/OFF twice within 5 seconds, the schedule for all the emergency units in the circuit will reset to the current time

Duration Testing (3 hours)

- An automatic duration test will occur between 24-48 hours after commissioning to allow for battery charging
- An automatic duration test will occur semi-annually or annually at a random point in the 52nd week of each year
 A duration test will occur at a random point between 0-24 hours after pressing the manual button for 5-10
- A duration test will occur at a random point between 0–24 hours after pressing the manual button for 5–10 seconds. Time will be added to allow the battery to charge if the battery has been charging for less than 24 hours
- A duration test may be delayed by other events, such as a power cut that interrupts the test or a lack of charging
 time to the battery. If this occurs, the green LED indicator will flash 1 x second to indicate there is a pending
 duration test and the emergency module has been rescheduled
- · Any faults found in the duration testing will be reported via the LED indicator, as detailed below
- A functional test will not override any faults reported by a duration test. A full duration test or re-commissioning is required to clear any faults

Functional Testing (<2 minutes)

- · A short automatic functional test will occur every 7 days
- A manual functional test will start after pressing the manual test button to 1 2 seconds

- · Any faults found in the functional testing will be reported by the LED indicator, as detailed below
- A functional test will not override any faults reported by a duration test. A full duration test or re commissioning is required to clear any faults

Manual Testing

- For a manual functional test, press the test button for 1–2 seconds. A manual functional test will last <2 minutes will start
- For a manual duration test, press the test button for 5–10 seconds. A manual duration test will
 occur at a random point between 0-24 hours after pressing the test button for 5-10 seconds.
 Time will be added to allow the battery to charge if the battery has been charging for less than
 24 hours

Pending Duration Testing

 A duration test maybe delayed by other events, such as power cut that interrupts the test or charging period. If this occurs, the green LED indicator will flash to indicate there is a pending duration test and the emergency module has been rescheduled until charging is complete

Lamp or Luminaire Fault

- Turn off the supply and replace or correct the fault with the lamp or luminaire, and then reconnect the supply
- Press the manual test button for 5–10 seconds. A manual duration test will occur at a random point between 24-48 hours later to allow the battery to charge fully
- If the battery and power have been disconnected, the EM kit will re-commission and automatically test the replacement
- A successful functional test will not override any faults reported by a duration test. A full duration test
 or re-commissioning is required to clear any faults

Battery Fault

- \bullet Turn off the un-switched supply to the EM kit and replace the battery, then reconnect the supply
- If the fault was because the battery was not connected, the un-switched supply must be turned off when connecting the battery to clear the battery fault
- The EM kit will re-commission and automatically test the replacement between 24 48 hours after commissioning to allow for battery charging

LED Indicator

· System status is indicated by a bi-colour indicator LED as detailed below

LED Indication	Status	
Green permanently ON	System Healthy	
Permanently OFF	Emergency mode: Mains failure or mains disconnected	
Green Flash 1 x second	Duration Test Pending	
Green Flash 2 x second	Duration Test Running	
Green Fast Flash 4 x second	Functional Test Running	
Red Permanently ON	Battery Charging Fault	
Red Flash 2 x second	Battery Duration Fault	
Red Flash 4 x second	Lamp or Luminaire Fault	

WARNING

This product must be disconnected from the circuit if subjected to any high voltage or insulation resistance testing. Irreparable damage will occur if this instruction is not followed.

GENERAL

These products contain a light source of energy efficiency class C to Regulation (EU) No. 2019/2015 and (UK) 2021 No. 1095.

These products contain a non-replaceable LED light source and a control gear which can be replaced by a professional.



Clean with a soft dry cloth only, do not use aggressive cleaning products or solvents which may damage the product.

Installing in areas where the temperature consistently drops below 0°C may shorten the battery life

The maximum constant ambient temperature at the point of installation should not exceed 50° C. These products are non-dimmable.

These products should be dismantled for disposal when it reaches the end of its life. Please see website for dismantling instructions.

These products should be recycled in the correct manner when it reaches the end of its life. Check local authorities for where facilities exist.

The batteries in **MODEMKIT** and **MODEMKIT2** are Lithium Ion and must be disposed of correctly. Please contact the local authorities for the disposal of this toxic waste.

Check local authorities for where facilities exist.

WARRANTY

The products listed below have the following warranty from date of purchase.

- PRECW4 / PRECW5 7 years
- MODEMKIT / MODEMKIT2 5 years (including battery)
- MODMWS 5 years
 Failure to install these products in accordance with the current edition of the IEE Wiring Regulations (BS7671), improper use, or removal of the batch code will invalidate the warranty. If these products should fail within its warranty period, it should be returned to the place of purchase for a free of charge replacement. ML Accessories does not accept responsibility for any installation costs

associated with the replacement product. Your statutory rights are not affected. ML Accessories

reserve the right to alter product specification without prior notice.

TESTING FOR EMERGENCY LUMINAIRES

MODEMKIT

Recommended routine test procedure in accordance with BS5266:

- · Daily check check LED charge indicator is illuminated
- Monthly functional test simulate a mains supply failure for approx. 30 seconds by operation of key switch or switching off circuit breaker. Ensure normal supply is restored after test and ensure charge indicator is illuminated
- Annual 3-hour duration test simulate a mains supply failure for 3-hour continuous test by operation of key switch or switching off circuit breaker. Ensure normal supply is restored after test and ensure charge indicator is illuminated
- If the luminaire fails any of the above tests, please contact a qualified electrician. See helow for test record sheet

MODEMKIT2

Recommended routine test procedure in accordance with BS5266:

- Daily check check status of bi-colour LED indicator
- Monthly functional test the luminaire will perform this function without any action from the
 user. Alternatively, simulate a mains supply failure for approx. 30 seconds by operation of
 key switch, switching off circuit breaker or using test button. Ensure normal supply is
 restored after test and check status of bi-colour LED indicator
- Annual 3-hour duration test the luminaire will perform this function without any action
 from the user. Alternatively, simulate a mains supply failure for 3-hour continuous test by
 operation of key switch, switching off circuit breaker or using test button. Ensure normal
 supply is restored after test and check status of bi-colour LED indicator
- If the luminaire fails any of the above tests, please contact a qualified electrician. Results should be recorded, even when obtained via the self-test function. See below for test record sheet

TEST RECORD SHEET											
INITIAL COMMISSIONING 3 HOUR TEST		SIGNED				DATE					
MONTH	TEST	FIRST YEAR		SECOND YEAR		THIRD YEAR		FOURTH YEAR		FIFTH YEAR	
MONTH	MONTH TEST	SIGNED	DATE	SIGNED	DATE	SIGNED	DATE	SIGNED	DATE	SIGNED	DATE
1	FUNCTIONAL										
2	FUNCTIONAL										
3	FUNCTIONAL										
4	FUNCTIONAL										
5	FUNCTIONAL										
6	FUNCTIONAL										
7	FUNCTIONAL										
8	FUNCTIONAL										
9	FUNCTIONAL										
10	FUNCTIONAL										
11	FUNCTIONAL										
12	3 HOUR										

Installed by:	Installation date:

Contact number:

Xnightsbridge

Manufacturers Declaration of Conformity For ML Accessories (Knightsbridge) Electrical products in accordance with UKCA marking

ML Accessories Ltd. declare that all products have been designed, manufactured, and tested in accordance with the requirements of the relevant legislation

UKCA marking legislation

UK SI 2016 No. 1091	Electro Magnetic Compatibility Regulations 2016
UK SI 2016 No. 1101	The Electrical Equipment (Safety) Regulations 2016
UK SI 2012 No. 3032	Restriction of the use of Certain Hazardous Substances in Electrical and
	Electronic Equipment Regulations 2012
UK SI 2017 No. 1206	Radio Equipment regulations 2017
UK SI 2021 No. 1095	The Ecodesign for Energy-Related Products and Energy
	Information (Lighting Products) Regulations 2021

Included Legislation

UK SI 2008	No. 2852	UK REACH
UK SI 2013	No. 3113	WEEE

Safety Standards

Full individual declarations and specific safety standards applicable to relevant product series can be found on our website **www.mlaccessories.co.uk**

We hereby declare that the equipment named above has been designed to comply with the relevant sections of the above referenced specifications. The products comply with all essential requirements of the directives.

Catherine Connolly

Technical Assessment & Compliance Manager

ML Accessories Ltd. Unit E Chiltern Park, Boscombe Road, Dunstable. Bedfordshire, LU5 4LT

Lee Saunders

This declaration becomes invalid if technical or operational modifications are introduced without ML Accessories Ltd. written consent.

Xnightsbridge

Manufacturers Declaration of Conformity For ML Accessories (Knightsbridge) Electrical products in accordance with CE marking

ML Accessories Ltd. Declare that all products have been designed, manufactured, and tested in accordance with the requirements of the relevant legislation

CE marking legislation

In Accordance with the following Directives:

2014/35/EU Low Voltage Directive

2014/30/EU EMC Directive
2014/53/FU Radio Equipment Directive

Including Legislation

1907/2006 REACH 2015/863 RoHS 2021/341 ERP

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Catherine Connolly Lee Saunders

Technical Assessment & Compliance Manager

ML Accessories Ltd. Unit E Chiltern Park, Boscombe Road, Dunstable. Bedfordshire, LU5 4LT

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SUPPLIED BY:

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WWW.MLACCESSORIES.CO.UK

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MADE IN CHINA



