

# LPS II Remote



**CLAYTON**  
**POWER**

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# 1. GETTING STARTED

## 1.1 Product Box Contents

Quantity	Description
1	LPS II Remote
1	M12 connector
1	Mounting Bracket (With screws)

## 1.2 Product Details

Connection overview		#	Description
		1	Charging from 230VAC indicator
		2	Charging from 12VDC indicator
		3	Charging with Boost charge indicator
		4	AC operation state indicator
		5	DC operation state indicator
		6	Jumpstart operation state indicator
		7	AC activation button
		8	DC activation button
		9	Jump start activation button
		10	SOC indicator

M12 - IO Pinout		Front view
#	Function	
1	Single Wire (Communication)	
2	+12V	
3	GND	
4	Not used (do not connect)	
5	Not used (do not connect)	

## 2. PRODUCT USAGE

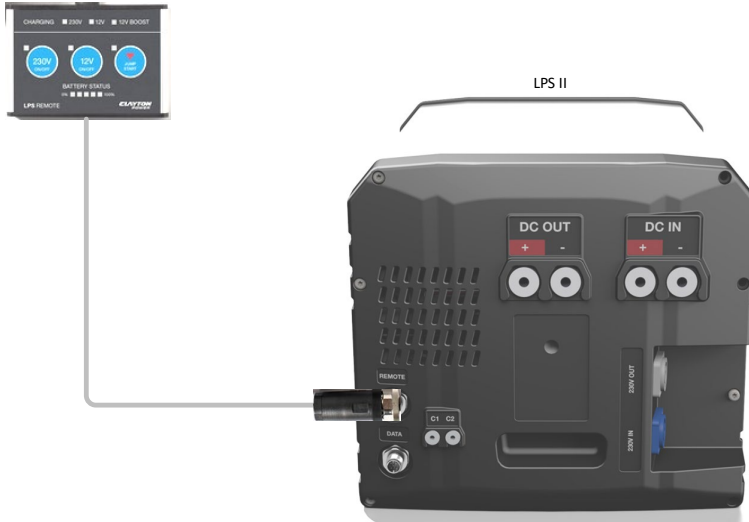
All installations must be carried out by trained and qualified installers.

This document is intended as a general guide for installations and not as a comprehensive, step-by-step manual.

Local rules and regulations must always be followed and take precedence over any instructions provided in this guide.

The Remote should be mounted on a non-conductive surface for best performance.

The Remote can be used with several products, but is mainly intended for the LPS II range, and is connected to the M12 connector on the back of the LPS II marked "REMOTE" as shown on the picture below.



LED behaviour		
LED	Behaviour	Description
230V Charging	Green Flashing	230VAC charging
	Green Solid	230VAC charge full
	Red flashing	230VAC charging failure
12V Charging	Green Flashing	12VDC charging
	Green Solid	12VDC charge full
	Red Flashing	12VDC charging failure
12V Boost Charging	Green Flashing	12VDC Boost charge
	Red Flashing	12VDC Boost charge failure
230V (Button)	Green Flashing	230VAC output starting up
	Green Solid	230VAC output
	Red Flashing	230VAC output failure (Except for Empty battery)
	Red Solid	230VAC output failure - Empty Battery
12V (Button)	Green Flashing	12VDC output starting up
	Green Solid	12VDC output
	Red Flashing	12VDC output failure (Except for Empty battery)
Jump Start (Button)	Red Solid	12VDC output failure - Empty Battery
	Green Flashing	Jump start charging (Wait until solid)
	Green Solid	Jump start ready to start vehicle
	Red Flashing	Jump start failure

### 3. SPECIFICATIONS

Parameter	Value
SKU no.	RL1802 / RL1804
Operating temperature range	-20 - 50°C
IP classification	21
Product weight	300g
Product size (H x W x L)	50 x 75 x 15mm
Supply Voltage	10.5V - 24V
Self-consumption (Max)	30mA
Self-consumption (Sleep)	2,5mA
Wakeup Output - Current Max (Open Collector - Active High)	10mA (Supply Voltage)
Wakeup Output - Impedance (Active / Inactive)	220Ω / >1mMΩ
Output - Pull up voltage max	30V
Output - Current Max (Open Collector - Active Low)	500mA
Single Wire Communication - Signals	0-12V
Single Wire Communication - Speed (Simplex UART)	9600 Baud

### 4. CERTIFICATIONS AND COMPLIANCE

**Low Voltage Directive 2014/35/EU**  
EN62368-1, EN62133

**RoHS Directive 2011/65/EU**  
EN 63000

**EMC 2014/30/EU**  
EN61000-6-2, EN61000-6-3

**E-Marking**  
UN-ECE Regulation 10, E13 10R-05 14880

### 5. STORAGE

The remote can be stored at temperatures between -20°C and 50°C.

## 6. WARRANTY

### **IMPORTANT AND WARNING:**

**DO NOT USE OR ATTEMPT TO USE THIS PRODUCT UNTIL YOU HAVE READ THE USER MANUAL IN ITS ENTIRETY. IMPROPER INSTALLATION OR USE OF THIS DEVICE MAY BE DANGEROUS AND MAY CAUSE DAMAGE TO OTHER ELECTRICAL EQUIPMENT AND WILL VOID THE WARRANTY.**

**Warranty.** The company guarantees that products and associated services are free of significant defects in design, material and execution for 24 months after delivery.

**Exceptions.** The company's warranty does not include defects caused by: (i) ordinary wear and tear, (ii) storage, installation, use or maintenance against the company's instructions or ordinary practice, (iii) repair or change carried out by others than the company, and (iv) other conditions for which the company has no responsibility.

**Examination.** Within a reasonable period of time after receiving a complaint from the client about defects and examining the claim, the company will inform the client about whether or not the defects are covered by the warranty. After the request, the client must ship defect parts to the company.

The client covers the expenses and risks of the parts during transport to the company. The company covers the expenses and risks for return of parts during transport, only if the defects are covered by the warranty.

**Register a complaint.** If the client discovers defects within the period of warranty, which the client wishes to invoke, it must be communicated immediately in writing. If defects, which the client discovers or should have been discovered, are not immediately communicated to the company in writing, it cannot be effectuated at a later time. The client must provide the company the requested information about the registered defects.

### **Instructions for Obtaining Warranty Service for Clayton Power Devices**

To obtain warranty service, contact the store where you have bought the product and provide the following:

- Sales receipt
- Device model number
- Device serial number
- Brief description of the application and problem, including any error codes displayed on the device.
- Obtain an authorisation number from the Clayton Power dealer before shipping the device. Carefully pack the device and ship it (freight paid) to the Clayton Power dealer.

**Sales:** sales@claytonpower.com

**Service:** service@claytonpower.com

**Phone:** +45 4698 5760

**Address:** Pakhusgaarden 42-48  
DK-5000 Odense C



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