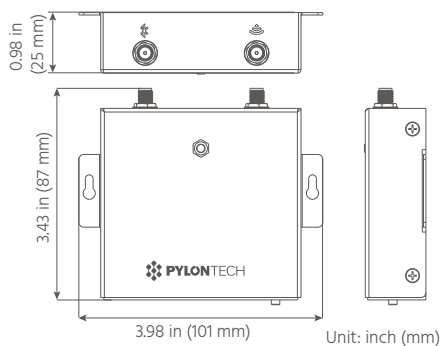# KIT-C1

KIT-C1 is a communication box that converts wireless communication to wired communication. It is designed to be used with some Pylontech batteries without communication interfaces.

With different battery models, KIT-C1 can realize some or all of the following functions.

- Collect and exchange battery information with external devices through RS485/CAN interface.
- Enable external devices to control battery charging and discharging through dry contacts.
- Transmit Bluetooth signals through antennas for batteries in confined spaces or over long distances.

Unit: inch (mm)

Electrical Specifications

Power Supply Voltage	10 VDC ~ 60 VDC
Power Consumption	< 1 W

Environment Specifications

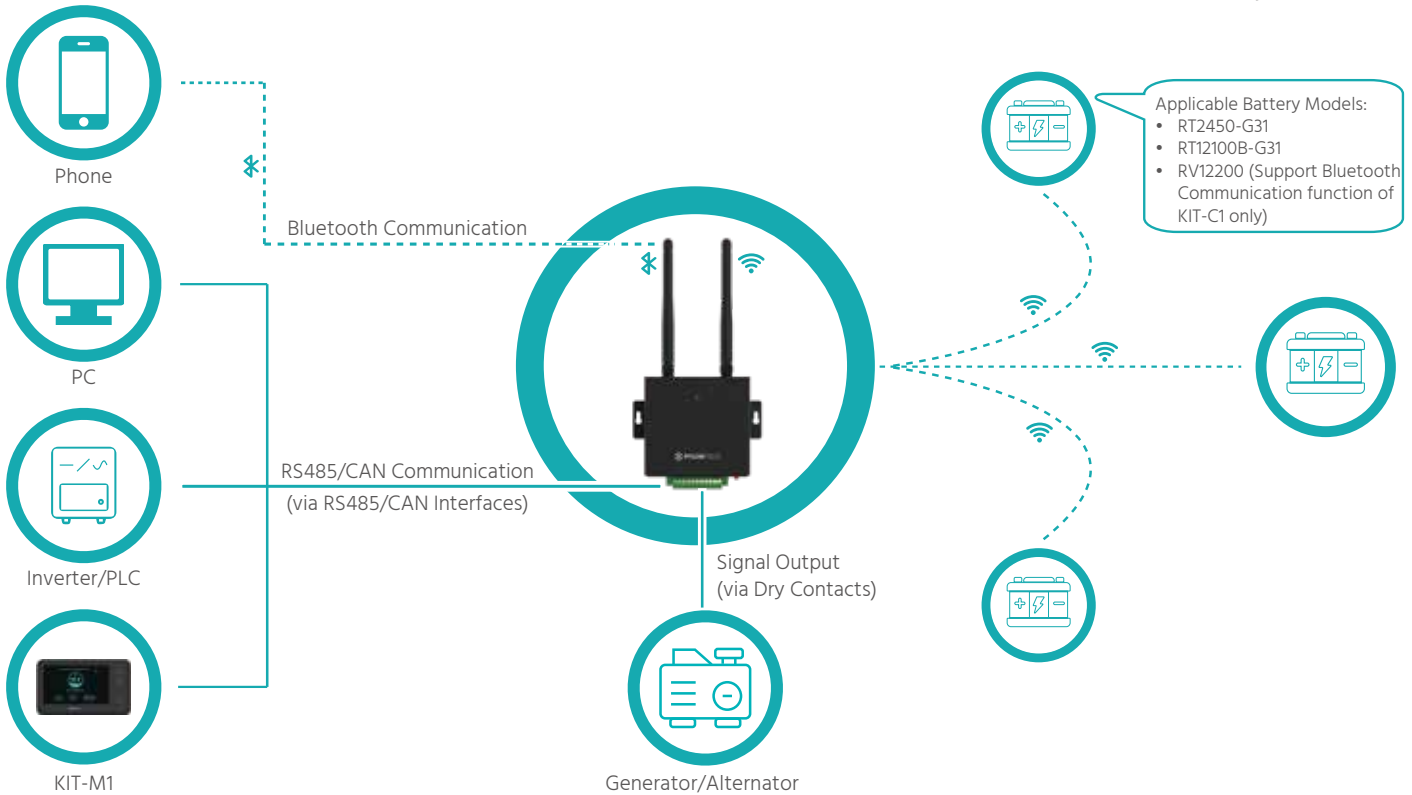|	
Storage Temperature Range	-40 °F ~ 158 °F (-40 °C ~ 70 °C)
Operating Temperature	-4 °F ~ 140 °F (-20 °C ~ 60 °C)
Max. Altitute	13123 ft (4000 m)
Relative Humidity	5% ~ 95% (non-condensing)

Mechanical Specifications

Dimensions (L × W × H)	3.98 × 3.43 × 0.98 in (101 × 87 × 25 mm)
Weight	Approx. 0.66 lbs (300 g)
Case Material	Metal
IP Rating	IP20

Other

Communication	Bluetooth, RS485, CAN, Dry Contact

*Product performance is based on testing in a controlled environment. Your results may vary due to several external and environmental factors.
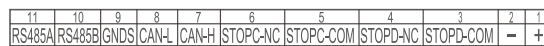
Phone

Bluetooth Communication

PC

RS485/CAN Communication
(via RS485/CAN Interfaces)

Inverter/PLC

Signal Output
(via Dry Contacts)

KIT-M1

Generator/Alternator

Applicable Battery Models:
- RT2450-G31
- RT12100B-G31
- RV12200 (Support Bluetooth Communication function of KIT-C1 only)

Protocols Supported by RS485 Interface

Manufacturer	Name	Type	Address Code Range	Baud Rate
Pylontech	RS485-Modbus-Protocol-Pylon-Sys-20230720	modbus	0x1~0x10,0xFF	9600 kbps

Protocols Supported by CAN Interface

Manufacturer	Name	Type	Frame Type	CAN ID Range	Baud Rate
Victron	can-bus_bms_protocol 20210302	CAN_bus	Standard Frame	0x351~0x382	500 kbps
Pylontech	CAN-Modbus-Protocol-Pylontech-Sys-V1.5-20220628	CAN modbus	Extended Frame	0x10010000~0x1001FFFF	500 kbps

*For actual CAN ID and protocol requirements, see protocol documents.
*For more protocol support requirements, please contact the after-sales service.

Pin Functions

11	10	9	8	7	6	5	4	3	2	1
RS485A	RS485B	GNDS	CAN-L	CAN-H	STOPC-NC	STOPC-COM	STOPD-NC	STOPD-COM	−	+

SLEEP

Long press the button to hibernate the batteries in the same network.

No.	Pin	Function Description	
1	+	Power Supply +	Voltage Range: 10 VDC ~ 60 VDC; Recommended Voltage: 12 VDC
2	-	Power Supply -	
3	STOPD-COM	Dry contact outputting a signal of discharging stopped	Voltage: ≤ 277 VAC/220 VDC; Current: ≤ 4 A; Max. Switching Power: 62.5 VA/90 W
4	STOPD-NC		
5	STOPC-COM	Dry contact outputting a signal of charging stopped	The corresponding dry contacts are closed by default. They will open and output warning signals in advance when the battery connected with KIT-C1 is about to stop discharging/charging.
6	STOPC-NC		
7	CAN-H	CAN_H	CAN Communication Interface A terminating resistor of 120 Ω has been provided.
8	CAN-L	CAN_L	
9	GNDS	Communication Signal Ground	
10	RS485B	RS485B	RS485 Communication Interface RS485 can be used as the console of Pylontech monitoring software Batteryview and the communication port of Pylontech RS485 protocol.
11	RS485A	RS485A	