

Marconi - LINK T6 - LORA

Bidirectional LORA remote with 6 channels

Cod. APE-519/0322

User manual - Vers.1.0



Description

Marconi LINK T6 is a mechanically sturdy portable remote, with long range bidirectional communication and variable code coding powered by LoRa technology. Combined with the **Marconi LINK R2** decoder it manages two relay outputs that can be configured in bistable, monostable or timed mode, and receives the ACK relay feedback as well. It's designed to command and monitor charges distant from the user and/or activate alarms.

Buttons and LED functions

Each button has a different binary value that can be individually associated with a channel from the Marconi LINK R2 receiver. At the push of a button, the remote transmits a radio message, receives back the confirmation and the LED shows the outcome.

Remote cloning: By holding the P1 and P2 buttons on a transmitter already coupled with a LINK R2 for more than 2 seconds the receiver will shift into cloning mode. For operating details, see the Marconi LINK R2's user manual.



The LED's behaviour changes depending on the output mode programmed in the decoder:

- 1) **Impulsive output:** after about 200 ms from the touch, the LED flashes quickly green if the command is received; it turns red if not.
- 2) **Bistable output:** the LED stays green for 2 seconds when the output is active, red for 2 seconds if it's inactive; if it doesn't get the ACK from the decoder, it'll flash rapidly.

Battery LED: Flashes red when the voltage is low (<2,4V). Replace the battery as soon as possible.

Technical features

DESCRIPTION	VALUE	UNIT
Carrier frequency RF	869,525	MHz
European band ISM	869,4 - 869,65	MHz
Working voltage	2,1-3,3	Volts
Transmission absorption (Tx mode)	45	mA
Receiving absorption (Rx mode)	16	mA
Stand-by absorption (open buttons)	0,5	uA
Power ERP	7	dBm
Modulation	LORA	
Spurious radiated power <1GHz	-40	dBm
Spurious radiated power >1GHz	-30	dBm
Coding	Keeloq	
Lithium battery type 3V	CR2450	
Casing and buttons material	ABS	
Tool for battery replacement	Phillips and flatheaded screwdriver	
Working temperature	-10+55	°C

Battery replacement

Replace the battery when, during transmission, the battery LED flashes/turns red. In this case the voltage dropped to 2.3V: immediate replacement is advised to avoid the forced stop of the transmitter, around 2.1V.

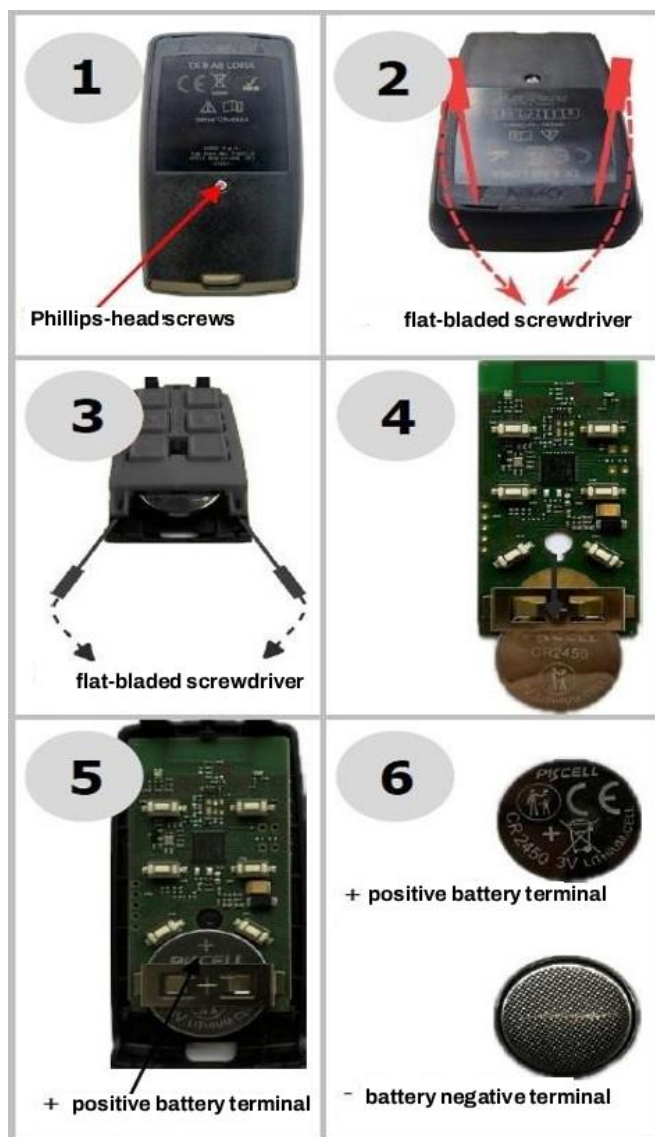
Replacement procedure:

1. Remove the screws: with a Phillips-head screwdriver unscrew the screw on the back of the remote (fig.1 - Tab.2).
2. Pry on the marked spots: insert two flatheaded screwdrivers in the spots indicated in fig. 2 and pry them at the same time away from the casing.
3. Open the casing: remove the bottom cover and detach the two halves.
4. Remove the button covers: with a flatheaded screwdriver, pry the button covers away from the casing as shown in fig.3.
5. Remove the TX circuit: slide the transmitter module out of the bottom cover.
6. Remove the battery: unhook the cell by pushing in the direction shown in fig.4 (Tab.2).
7. Insert a new battery: insert a new CR2450 lithium battery according to polarity; the positive must face upwards as shown in fig.5-6 (Tab.2).
8. Close the casing: reassemble the remote following backwards the steps 1 through 4.

www.abexo.tech

Abexo
AUTOMATION ACCESSORIES

ABEXO è un marchio registrato di proprietà di AB Tecno srl
S. Lazzaro di Savena (BO) – 051/6259580
info@abtecno.com
www.abtecno.com – www.abexo.tech



Manufacturer's declaration for UE conformity

The manufacturer AB Tecno S.r.l. declares that the radio devices model Marconi LINK T6 - LORA is compliant with the Directive 2014/53/UE.

The remote works on the 869,525 MHz frequency, inside the ISM band between 869,4 and 869,65 MHz, with maximum irradiating power of 10 dBm. The device falls into the "Class 1" category of radio equipment, as defined by Article 1(1) of the European Commission's Decision nr 2000/299/EC of 06/04/2000; the class 1 equipment can be placed on the market and used without limitation in all the European Union member States.

Reccomandation CEPT 70-03

The device works in a harmonized frequency band; to follow the Recommendation CEPT 70-03 it must follow an hourly duty-cycle of maximum 10%, i.e. maximum 6 minutes of transmission every 60. To simplify, a maximum of thirty 25-second transmissions is allowed in one hour.

	Do not ingest the battery, Danger of chemical burn. This product uses a coin battery. Its ingestion can cause severe internal burns. Always keep the batteries out of reach from children. If the battery's housing doesn't stay closed securely, stop its use and keep it out of reach from minors. If you suspect ingestion or insertion in any orifice, immediately contact a doctor.
	At the end of its life cycle the product must be disposed of separately from common household waste. It's the user's responsibility to take the device to the collection point for electrical and electronical waste. Incorrect disposal entails the application of administrative sanctions established for EU Member States.

Bologna, 23/12/2025