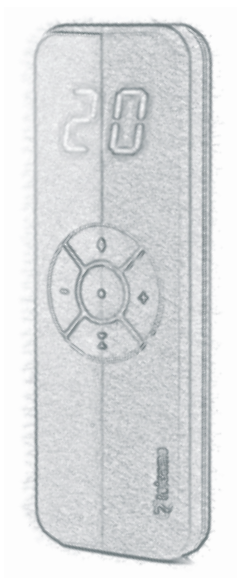


# FM420U

**EN**

MULTI-CHANNEL 433.92 MHz RADIO CONTROL.  
Operation and programming instructions.



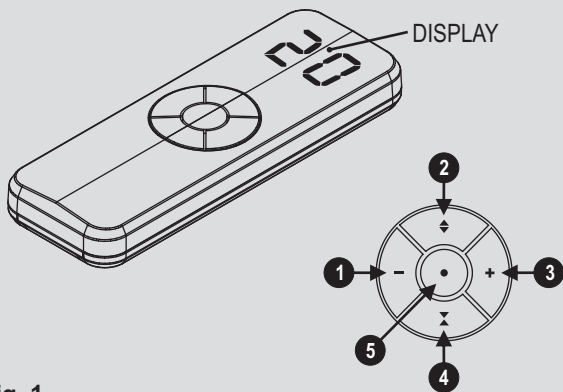


Fig. 1

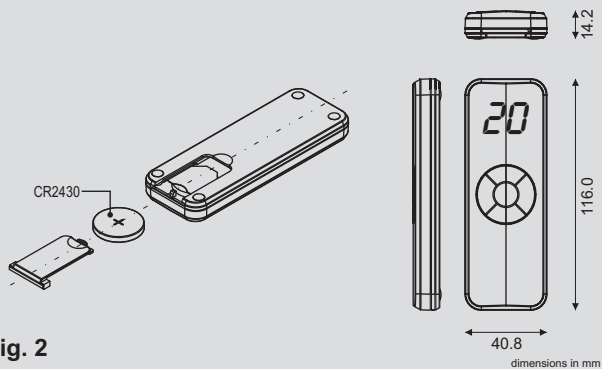


Fig. 2

dimensions in mm

## SPECIFICATIONS

Multi-channel radio control for quick and intuitive control of 20 users with receivers in the series FM400U

Innovative and stylish container with white led display which, located under semi-transparent plastic, shows the selected channel. At the centre of a rubber faced keypad with three function keys and two up-down channel selection keys. Fitted with practical non-slip rubber buttons.

TECHNICAL SPECIFICATIONS	u.m.	FM420
Power supply with battery type	Vdc	3 (CR2430)
Transmission consumption	mA	50
Frequency	MHz	433,92
Modulation		FSK
Operating temperature	°C	-20 +55

**Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.**

**Tested to Comply with FCC Standards FOR HOME OR OFFICE USE. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.**

## DESCRIPTION OF COMPONENTS

**Fig. 1**

1. channel decrease key
2. CH1 transmission key
3. channel increase key
4. CH2 transmission key
5. CH3 transmission key

**Fig. 2**

Battery panel opening and external dimensions in mm

## MAIN FUNCTIONS

This transmitter can control up to 20 automations, each of which can be sent 3 different functions (for example OPEN, CLOSE and STOP).

To scroll through the 20 channels, press key 1 (to decrease the number) or 3 (to increase the number).

After selecting the channel, press keys 2, 4 or 5 to transmit the code.

To memorise the code in the user, read the receiver instructions.



## SPECIAL FUNCTIONS

### -Channels groups (C1, C2).

Use this menu to group channels as required. Once configured, press a command for C1 or C2 to transmit all selected channels in sequence.

Example: how to group channels 02 and 15 in C2



Press and hold the the keys indicated in the drawing (1 and 3) until   starts to flash.



Use key 1 or 3 (indicated in the drawing) to scroll through to the flashing **C2**



Use the central key to confirm **C2**  
The channel **00** will start flashing.



Use key 3 (indicated in the drawing) or 1 to scroll through the channels to **02**



Press key 2 to add the channel 02 to C2. The dot next to 2 will light up (**02.**).

To remove it from C2 press key 4, and the dot next to 2 will turn off (**02**).

If a dot is lit next to 0 (**0.2**), this means that channel 02 also belongs to group C1.



Use key 3 (indicated in the drawing) or 1 to scroll through the channels to **15**



Press key 2 to add the channel 15 to C2. The dot next to 5 will light up (**15.**).

To remove it from C2 press key 4, and the dot next to 5 will turn off.



Use the central key to complete programming of C2. The text *Pr* is displayed briefly, followed by *00* after which the display turns off.

### Access to secondary menu

This menu contains the following functions:

- *dE* Display shutdown delay setting
- *LL* Maximum channel number setting
- *rP* Channel 00 repetition function
- *Ff* Firmware Version

Procedure to enable secondary menu:



Press and hold the keys indicated in the drawing for approx. 10 seconds until *dE* appears.



key 3 (indicated in the drawing) or 1 to scroll through the menu until the required function is displayed

### - Display shutdown delay

The channel remains on display after release one of the keys for a time interval that can be modified as follows:



From the secondary menu, press key 5 to select *dE*



Use key 2 (indicated in the drawing) or 4 to scroll through values *d1* to *d9* corresponding to a display shutdown delay from approx. 2 to 10 seconds.



Press key 5 to confirm. The text *Pr* appears briefly and the radio control returns to normal operating status.

*To increase battery lifetime, set a short delay interval.*

**- Maximum number of channels** Display of channels can be set to the minimum indispensable, to optimise search times.

Procedure:



From the secondary menu, press key 5 to select *LL*



Use key 3 (indicated in the drawing) or 1 to scroll through values 00 to 20.

Example: on selection of 12, all channels from 00 to 15 will be displayed.



Press key 5 to confirm. The text *Pr* appears briefly and the radio control returns to normal operating status.

*Groups C1 and C2 are only displayed if programmed.*

- **Channel 00 repetition** This new multi-channel control enables programming of channel 00 so that it repeats transmission sequentially for a set time interval.

This function is useful when channel 00 is optimised for centralised commands, and repetition optimises reception of the radio signal.



Press key 5 to select *rP*



Use key 2 (indicated in the drawing) or 4 to scroll through values 00 to 40.

Select 00 to disable transmission repetition.

Select 10, 20, 30 or 40 to set the repetition interval in seconds.



Press key 5 to confirm. The text *P r* appears briefly and the radio control returns to normal operating status.

In this case (30) channel 00, after pressing a transmission key, is transmitted at regular intervals for 30 seconds. On each transmission, the text *rP* is displayed, followed by *00*. Press key 1 or 3 to interrupt transmission repetition.

To disable repeated transmission of channel 00, set *00* in the menu *rP*.

## - Firmware Version



Press key 5 to select *Fr*. This displays a number corresponding to the radio control firmware version.



## **BATTERY REPLACEMENT**

To replace the battery, open the battery compartment and remove the battery with the aid of a tool (for example the tip of a pen). Fit the new battery taking care to observe polarity. See fig. 2 on page 2.

## **GUARANTEE**

The present guarantee covers possible faults and/or irregularities due to manufacturing defects and/or faults.

The guarantee will automatically decay in the event of tampering or misuse of the product.

During the guarantee period TELCOMA srl pledge to repair and/or replace defective and non-tampered parts. The call charges, as well as the collection, packaging and transportation costs of the product for repair or replacement are at the clients full and exclusive expense.







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