
THEDLC RF

WIRELESS RECEIVER WITH PID CONTROL AND BUILT-IN ENERGY-SAVING FUNCTIONS

FOR FITTING TO AN ELECTRIC TOWEL HEATER

Overview



Main features

- Pairing with a wireless remote control (emitter).
- Wireless transmission by means of radio waves.
- Reception of wireless commands and information.
- Reception of commands via the pilot-wire input.
- Ambient room temperature control.

Application

- Electric towel heaters.

Benefits

- **Ecodesign compliance & energy efficiency (ERP 07/2025):** fully compliant with the Ecodesign Directive when paired with the wireless remote control.
- **Check of pairing with the transmitter.**
- **Relay contact test function.**
- **Indicator lights for operating status and radio communication status.**
- **“Smart” electronic control.**
- **High-precision integrated ambient temperature sensor.**
- **Practical design:** slim-profile product.

Functional specifications

Use



Help for the visually impaired	- The button power on/standby mode is in relief to be easily identifiable to the touch. - Audible beeps indicating the change from the standby mode to active mode.
Buttons	2 types of buttons: - Heating on/Standby button. - Memo button (RF pairing).
Heating control	The output contact switch and change of state depending of received orders or informations.
Operating indicator lights	2 types of LED indicators: - Operational status. - RF communication status.
Automatic open window detection	Automatic switch to Frost Protection mode when a significant temperature drop is detected while ventilating a room.
Programming	Application of the Auto mode program from the remote control.
Protection mode	If communication with the transmitter is lost, the unit continues operating to maintain control of the installation. This mode is indicated by a specific flashing sequence of the Memo LED.
Backup in case the mains power supply goes off	RF pairing and relay status are saved. It will come back on last saved status as soon main power supply goes back on.
Manual test and temporary forced closing of the contact	

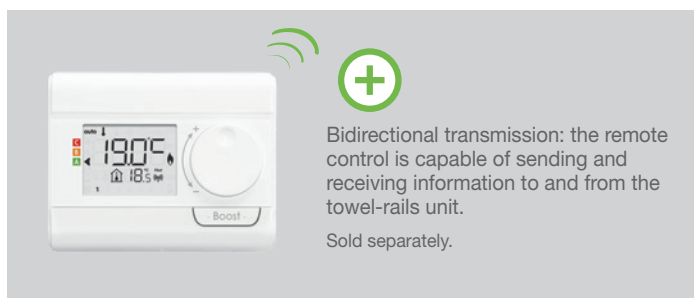
Installation

Compatible with all types of electric heating bodies. The receiver is designed for direct installation on towel heaters, in the same way as a standard control unit, with no changes to the industrial process.

800mm power cord with pilot wire already mounted on for the main power supply of appliance.

Wireless transmission by means of radio frequency: reliability, performance, flexibility and modularity

Designed to deliver comfort, energy efficiency, and simplicity, the new receiver combines advanced functions in a small and discreet housing. It is an ideal solution for controlling electric towel heaters in modern bathrooms. It can be available in white or dark grey finishes, to match different interior designs.



Technical specifications

Dimensional and finish specifications

Height	64,5mm	
Width	120mm	
Depth	38mm	
Colors	White	Dark grey
Net weight	0,3Kg	

Power supply

Operating voltage	230V +10% 50Hz
Relay output	230A AC resistive load
Environmental pollution degree	2
Overvoltage category	III

Control

Control type	PID (Proportional Integral Derivative) control by relay + triac
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Radio-wave transmission

Frequency	2403.5 MHz / 2405.5 MHz / 2407.5 MHz
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Environment

Protection rating	IP44 (after installation on the heating element)
Class	Class II
Operating temperature	0°C to +50°C
Storage temperature	-20°C to +70°C

Product codes

Codes

Descriptions

BXGRFRT2PA	RF Ecodesign receiver with PID control, Relay + Triac, pilot wire, CLII, White
BXGRFRT2PDGA	RF Ecodesign receiver with PID control, Relay + Triac, pilot wire, CLII, Dark grey

Compatible products (sold separately)

Codes

Descriptions

Remote-Control

RCBTHRFIMHF	Wireless digital remote control - White version
RCBTHRFIMHBF	Wireless digital remote control - Black version

Product customization (design features) possible. Please contact us.