BT-TH02 RF Series

Electronic thermostatic head - **WATTS**®Vision® system

Technical Data Sheet

Description

The **BT-TH02 RF Series** programmable electronic thermostatic head is designed for the control of domestic water-based radiators. The thermostatic head can be used either as a stand-alone device (with internal room temperature sensor) or it can be integrated into the WATTS® Vision® electronic home automation system by means of a central control unit (BT-CT02 RF or RF/WiFi) and **02 RF Series** room thermostats.

BT-TH02 RF

Programmable electronic thermostatic head for radiators. Can either be used as a stand-alone device (9 pre-set and 4 customisable programmes) or in conjunction with the WATTS® Vision® central control unit (**BT-CT02 RF/WiFi Series**) and **BT02-RF Series** thermostats.
Stroke speed: 2mm-1mm/s. Protection: Class I - IP20.
Power supply 2 AA LR06 1.5V Alkaline. Actuator force 70N.
Compliant with: EMC 2014/30/EU, RED 2014/53/EU, LVD 2014/35/EU, GPSD 2001/95/EC, RoHS 2011/65/EU.

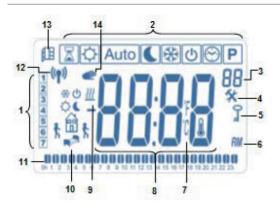| Type	Part No.	Room temperature	Temperature control
BT-TH02 RF	P06681	0÷50°C	5÷30°C

The programmable electronic thermostatic head with LCD display is designed to control various types of water-based radiators, optimise energy consumption and enhance home comfort:
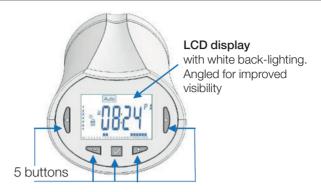- modern design;
- stand-alone version or version with 868.3 MHz bidirectional RF communication compatible with **BT-CT02 RF Series** central control units;
- "easy programme creation" function;
- weekly programming with increments of 30 mins;
- temporary override function;
- anti-freeze function;
- adaptive PID control for enhanced comfort and energy savings;
- non-volatile EEPROM memory;
- 2 rechargeable AA (LR6) batteries;
- 2 parameter menus (user and installer);
- 3 types of adapter for fitting on water-based radiators: M30x1.5, M28x1.5, **TRV Series** valve.

Technical specifications	
Environmental conditions: Operating temperature Shipping and storage temperature	0÷40°C -10÷50°C
IP rating	IP20
Protection class	Class I
Temperature accuracy	0.1°C
Comfort and reduced T setting range (°C)	5÷30°C (with increments of 0.5°C)
Anti-freeze	7.0°C (adjustable)
Timer/Boost	5÷30°C
Setting characteristics	PID
Maximum stroke	3.5 mm
Maximum force	70 N
Differential pressure	1.5 bar
Power supply	2 AA 1.5V alkaline batteries
Service life	>2 years
Radio frequency	868.3 MHz, <10 mW
Software version	Shown in parameter menu No. 19 v X.X
Compatible with	BT-CT02 RF central control unit
Directives	EMC 2014/30/EU
	LVD 2014/35/EU
	RED 2014/53/EU
	GPSD 2001/95/EC
	RoHS 2011/65/EU

Operation

LCD display
with white back-lighting.
Angled for improved
visibility

5 buttons

1. Current day of the week.
2. Operating mode menu (the active mode is framed).
3. Programme number or parameter number if " ✷ " is displayed.
4. Installation parameter menu.
5. Keypad locked indicator.
6. AM or PM indicator for 12-hour clock mode.
7. Unit of temperature measurement indicator (°C or °F).
8. Temperature and/or clock setting.
9. Heating demand indicator.
10. Icon for the creation and status of a programme in standard operating mode.
11. Current day's programme (the current time bar flashes).
12. RF signal transmission icon.
13. Window open icon.
14. Temporary override function ON (Timer/Boost mode).

Installation

Fitting the batteries:
- open the battery compartment cover and insert 2 AA alkaline batteries
- close the battery compartment cover.

Note: The batteries can be changed with the head installed.
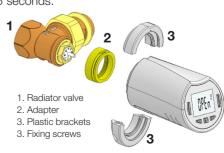
Installation of the programmable thermostatic head:

Motor activation menu

- fully open the programmable thermostatic head;
- go to parameter menu No. 10 by pressing and holding button (V) for more than 5 seconds.
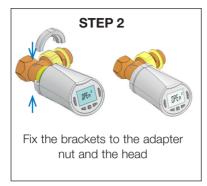The screen shown below will appear:

- press (V) to confirm. The display shows the message **Open**.
Wait for the back-lighting to switch off. The motor opens the device fully (the
message **Open** will flash during this operation). When the programmable
thermostatic head is fully open, the message Open stops flashing and the back-
lighting comes back on. You can now install the programmable thermostatic
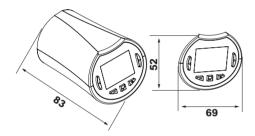head on the thermostat-adaptable valve of the radiator.

1. Radiator valve
2. Adapter
3. Plastic brackets
3. Fixing screws

Fitting

STEP 1	STEP 2	STEP 3	STEP 4
Screw the adapter onto the valve body	Fix the brackets to the adapter nut and the head	Fix the two screws to the brackets	Press (v) to finish (**Close**)

Overall dimensions (mm)

BT-TH02 RF

83
52
69

Specification text

BT-TH02 RF Series

Programmable electronic thermostatic head WATTS brand **BT-TH02 RF Series** for the electronic control of individual radiators. For use as a stand-alone device or in RF mode (868 MHz) in conjunction with the WATTS®Vision® touchscreen central control unit (**BT-CT02 RF** or **BT-CT02RF WiFi Series**). 9 pre-set and 4 user programmes. Actuator stroke speed: 2mm/s. Power supply: 2 AA LR06 batteries. Actuator force 70N. Automatic compensation of valve actuator stroke during installation. Light blue back-lit display. Soft-touch keypad for programming and use. Keypad lock mode. Double temperature sensor, radiator side and room side. Window open function. Valve seal anti-seizing function.
Compliant with: EMC 2014/30/EU, RED 2014/53/EU, LVD 2014/35/EU, GPSD 2001/95/EC, RoHS 2011/65/EU.