

SMART ROOM THERMOSTAT WITH RF AND WiFi

--- **model: THERMOB.RF1.WiFi** ---

--- **sub models: ThermoB.R1 + ThermoB.B1R1.WiFi** ---

INFO SHEET

SHORT DESCRIPTION

The ThermoB.RF1.WiFi smart electronic room thermostat is a temperature control system that consists of two modules: a ThermoB.R1 room transmitter and a ThermoB.B1R1.WiFi remote receiver.



It can be used as a standard residential thermostat for heating / cooling control via various sources without the need for a wired connection between the controlled device and the controlled room. The connection between the two modules is wireless and is made by radio (RF) signal. The thermostat provides a means of easily setting the desired room temperature and monitoring the status of the control output.

The instrument provides the ability to control the output both autonomously and remotely (via the Internet) through a computer or mobile device connected to the Internet.

The ThermoB.R1 room module consists of a built-in room temperature sensor and a rotating dial to set the desired user value.

The ThermoB.B1R1.WiFi remote receiver have a single relay output, WiFi and RF link. The relay output is used to control external unit for heating or cooling ON or OFF operation. The relay output should be wired to the control unit. Power is provided from the 230V / AC mains. RF radio link is used to communicate with room module. The WiFi link is used to connect to Internet.

MAIN CHARACTERISTICS

- Wireless radio
- Remote management and setup via Internet connectivity and home WiFi
- Easy to use
- Voltage free relay 16A SPDT
- Easy installation
- Modes: Off, Economy temperature, Comfort temperature, Program (scheduled) and ON/MAX
- Build in clock with weekly program
- Easily selectable heating / cooling mode
- Rotating dial for quick selection directly from room module of to desired temperature or mode.
- Wide range of dial pointer for comfort temperature zone.
- Web App for user interaction.

OPERATION MODES (accessible through Internet)

- **Manual.** Device output state is controlled either by pressing a “mode” button or by selection of OFF or ON/Max mode using Internet web app.
- **OFF or ON/Maximum.** The output state is OFF or ON regardless of temperature.
- **Fixed temperature** “Economy” (like 21°C) or “Comfort” (lie 24°C). The temperature set point is set to “Economy” or “Comfort” value and unit switches On..OFF as needed to maintain this temperature. For example, 21°C or 24°C
- **Schedule/Auto.** The maintained actual set temperature is automatically adjusted according to time - temperature schedule created.

TIME-TEMPERATURE SCHEDULE

Time-Temperature schedule is a combination of a preset time range and a selectable temperature or condition (off, economy temperature, comfortable temperature, ON/max) to be maintained in this range. The condition can be different for each day of the week.

The instrument has 6 separate time range groups and selectable status for each day of the week.

Technical data:

Receiver unit:	
- Power supply type SELV	230V / AC / 50Hz
- Consumption	<2VA
- Output: relay SPDT, voltage free	16A / 230V AC
- Overall dimensions	72x50x127mm
Receiver uni:	
- Power supply	2 x AAA batteries
- Overall dimensions	92x80x39mm
- Range of measured temperature	-20° .. +45° step 0.5°C
- Range of set temperature	+12°C .. +35°C
Other	
RF Frequency	866 MHz
RF range	80-100m on open space
WiFi network, WEP/WPA-PSK/WPA2-PSK	2.4 GHz/802.11b/g/n
Incorporates TX FCC ID:2ADUIESP-122	
Protection class	IP20
Operational conditions	-5T45, RH80%
Transport and storage conditions	-20T60, RH90%
Current time set	Automatically, Internet