

thermio™ essential - thermio™ essential H rf

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PRODUCT DESCRIPTION

The thermio™ essential H rf is a digital room thermostat of ErP class I. Its wireless radio technology allows it to be placed anywhere in the room without laying electrical cables and thereby enables extremely convenient control and monitoring of the room temperature. Its integrated frost protection function is activated automatically as soon as ambient temperatures drop below the saved temperature setpoint. Up to 16 receivers can be connected to the transmitter. In case of poor radio communication, manual operation is possible using an ON/OFF switch. An additional mounting plate not only enables quick and easy on-wall mounting, but also contributes towards an elegant appearance.

- ▶ The wireless radio technology allows individual placement in rooms without laying electric cables
- ▶ Signalling and control accuracy ensured through high frequency radio signal range of up to 30 metres inside buildings
- ▶ Long battery life through efficient energy management
- ▶ Monitoring the battery status and display with the required battery change
- ▶ The frost protection function prevents the freezing of radiators or icing of piping, even when switched OFF
- ▶ Cost reduction and efficient energy management through high level of control accuracy
- ▶ Very easy and convenient to use through large LC display, manual ON/OFF switch and reset button
- ▶ High flexibility – up to 16 receivers can be connected to the device
- ▶ Increased comfort through a wide temperature control range of +5°C to +35 °C
- ▶ Fast, simple and safe installation through surface mounting

APPLICATIONS

- ▶ Heating systems
- ▶ Heat pump
- ▶ Circulating pump
- ▶ Electric heating
- ▶ Motorised valves
- ▶ Actuators

TECHNICAL DATA

Electrical Data

Supply voltage	DC 3 V (2 x 1.5 V AA LR6 alkaline battery)
Battery life	2 years (depending on switching frequency)
Rated impulse withstand voltage (Uimp)	4 kV
Power consumption	5 VA
Control function	Heating
Control type	2- Point (ON/OFF)
Hysteresis	±0,4 K (±0,2 K ... ±1 K)
Control range	+5 °C (frost protection) +5 °C ... +35 °C
control accuracy	±1 °C

Communication method

Radio signal	868,3 MHz
Range	30 m (inside building)

Operating specifications

Operating mode	OFF-Mode (5 °C frost protection) Reset function temperature reduction mode/AUTO
Manual switch	ON/OFF

Display and format

Resolution	Room temperature 0.1 °C temperature setpoint 0.2 °C
Display Update	every 60 seconds
Room temperature display	+0 °C ... +50 °C
Status indicator	Battery state Operation mode

radio signal strength indication
 Status display heating (flame symbol)

Operating conditions

Humidity (operating)	10 % ... 90 % relative humidity, non-condensing
Humidity (storage)	10 % ... 90 % relative humidity, non-condensing
Temperature (operation)	-10 °C ... +50 °C
Temperature (storage)	-20 °C ... +45 °C

General specifications

Colour	White/Grey
Weight	178 g
Material	Thermoplastics, self-extinguishing & high-temperature resistant Plastic ABS
Dimension	74 x 74 x 28 mm
Mounting	Surface mounting (4-hole mounting on flush-mounted box) Surface mounted Flush mounting BS 4662 On-wall BS 5733

Compliance with standards

ErP class	I
ErP function	ON/OFF room thermostat
ErP Description	A room thermostat that controls the ON/OFF operation of a heater.
ErP contribution to seasonal characteristic space heating energy efficiency	1 %
Protection type	IP20
Protection class	II, according to corresponding mounting
Pollution degree	2
Approval mark	CE, Energy Saving Trust
Standards and guidelines	EN 60730-1, Mode of operation and additional properties: Type 1.B

Scope of delivery

Housing	Bezel Installation material
Sensors	2 x 1,5 V AA LR6 Alkaline

DIMENSIONAL DRAWINGS

