**GRÄSSLIN**
by Intermatic

# thermio™ essential - thermio™ essential B
Item No 04.46.0020.1 / EAN Code 4010940044961



CE ErP I (1%)  energy saving trust listed

## PRODUCT DESCRIPTION

The thermio™ essential B is an analogue room thermostat of ErP class I for convenient control of the room temperature. Its simple, individual and automatic temperature control as well as its analogue technology contribute to a significant reduction in energy costs. The thermio™ essential B features a toggle switch that is used to switch the thermostat on and off. An additional mounting plate not only enables quick and easy on-wall mounting, but also contributes towards an elegant appearance.

► Easy, individual and automatic temperature controland energy conservation through analogue technology
► Increased comfort through a wide temperature control range of +10 °C to +30 °C
► Very easy to use due to the large temperature adjustment knob with a precise clearly marked dial and precise indicator markers as well as a manual ON/OFF switch
► Fast, simple and safe installation through surface mounting

## APPLICATIONS

► Heating systems
► Heat pump
► Circulating pump
► Electric heating
► Motorised valves
► Actuators

## TECHNICAL DATA

| Electrical Data | |
| --- | --- |
| Equipment operating voltage | AC 24 V ... 230 V 50-60 Hz |
| Curret output | Changeover, potential free |
| Current capacity - ohmic load | 6 A / 250 V AC |
| Current capacity - inductive load cos.phi 0.6 | 3 A / 230 V AC |
| Rated impulse withstand voltage (Uimp) | 4 kV |
| Control function | Heating |
| Control type | 2- Point (ON/OFF) |
| Hysteresis | ±2 K ±50% |
| Control range | +10 °C ... +30 °C |
| control accuracy | ±1,5 °C |

| Power connection | |
| --- | --- |
| Device | Screw terminal with wire protection max. 2.5 mm² |

| Operating specifications | |
| --- | --- |
| Manual switch | ON/OFF |

| Display and format | |
| --- | --- |
| Resolution | Temperature setpoint 1 °C |

| 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 | 159 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 |

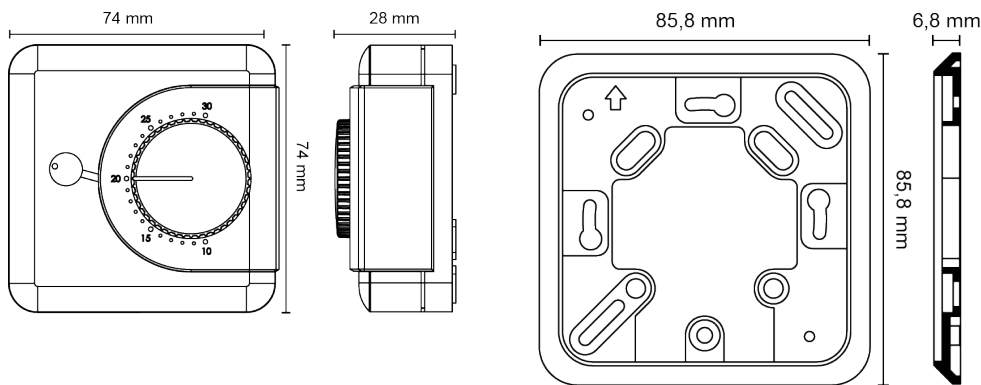| Compliance with standards | |
|---|---|
| ErP class | I |
| ErP function | ON/OFF room thermostat |
| ErP Description | A room thermostat that controls the ON/OFF operation of a heater. |
| ErP contribution to seasonal characteristic space heating energy efficiency | 1 % |
| Protection type | IP20 |
| 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 |

## DIMENSIONAL DRAWINGS



## CIRCUIT DIAGRAMS



Technical specifications and other information are subject to change without notice. Images can vary from original

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