

thermio™ essential - thermio™ essential BFT

Item No 04.47.0002.1 / EAN Code 4010940020156



PRODUCT DESCRIPTION

The thermio™ essential BFT is a mechanical frost thermostat of ErP class I that offers automatic and energy-efficient frost protection and is used in central heating systems as well as pipes in areas prone to freezing. Its tamper-proof temperature adjustment knob for the temperature setpoint allows optional limitation of the temperature range and serves as a lock for the set temperature and as protection against unauthorised access by third parties.

- ▶ Offers automatic, energy-efficient frost protection for central heating systems and pipes in locations at risk of frost damage, and for general building protection.
- ▶ The tamper-proof temperature adjustment knob allows optional limitation of the temperature range and serves as a lock for the set temperature and as protection against unauthorised access by third parties.
- ▶ Surface mounting for easy and quick installation
- ▶ 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
- ▶ A broad temperature control range of -5 °C to + 15 °C ensures that the system is activated in frost conditions

APPLICATIONS

- ▶ Boiler
- ▶ Heating systems
- ▶ Water pipes
- ▶ Storage heater



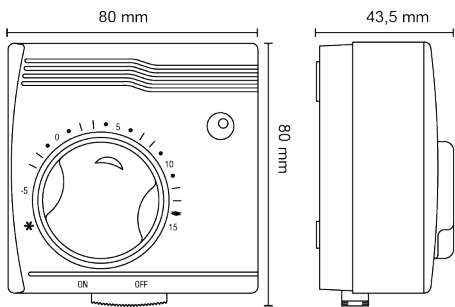
TECHNICAL DATA

Electrical Data	
Equipment operating voltage	AC 230 V ± 10 % 50-60 Hz
Current output	Changeover, potential free
Current capacity - ohmic load	10 A / 250 V AC
Current capacity - inductive load cos.φ 0.6	4 A / 250 V AC
Rated impulse withstand voltage (Uimp)	4 kV
Power consumption	0,25 W
Control function	Heating
Control type	2- Point (ON/OFF)
Hysteresis	±2 K
Control range	-5 °C ... +15 °C
control accuracy	±2 °C
Operating specifications	
Manual switch	ON/OFF
Tempering protection	Adjustable temperature adjustment knob
Display and format	
Resolution	Temperature setpoint 1 °C
Status indicator	Status display heating (LED)
Operating conditions	
Humidity (operating)	10 % ... 90 % relative humidity, non-condensing
Humidity (storage)	10 % ... 90 % relative humidity, non-condensing
Temperature (operation)	-15 °C ... +50 °C
Temperature (storage)	-15 °C ... +50 °C
General specifications	
Colour	White/Black
Weight	126 g
Material	Thermoplastics, self-extinguishing & high-temperature resistant
	Plastic ABS
Dimension	80 x 80 x 43,5 mm
Mounting	Surface mounted

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	I, after appropriate 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

DIMENSIONAL DRAWINGS



CIRCUIT DIAGRAMS

