

thermio™ eco - thermio™ eco C3

Item No 04.07.0007.1 / EAN Code 4010940045036



PRODUCT DESCRIPTION

The thermio™ eco C3 is a multi-channel programmer and enables individual control of two separate heating zones and hot water through three independent switching outputs. The integrated temperature control and frost protection function save costs as no additional room thermostat for the control of the central heating is required.

- ▶ Convenient, automatic change from summer to winter time
- ▶ Easy and fast installation
- ▶ Increased comfort through wide temperature control range
- ▶ Cost savings through integrated temperature control and frost protection function as no additional room thermostat for the control of the central heating is required
- ▶ Up to 3 ON/OFF commands (selectable in pairs) per day provide a comfortable room climate
- ▶ Individual programs are saved and continue to be available even after a power failure
- ▶ Individual control of two separate heating zones (living and sleeping areas) and hot water through three independent switching outputs.
- ▶ Convenient and simple reading of information thanks to the back-lit display, even in low-light conditions
- ▶ Short-term and need-based heating through Boost function



APPLICATIONS

- ▶ Boiler
- ▶ combination boiler
- ▶ Domestic heating systems for heating and hot water
- ▶ Pump-controlled central heating systems
- ▶ Gravity heating systems
- ▶ The multi-channel capability allows compliance with Part L (England, J Scotland and F Northern Ireland) of the building requirements for apartments over 150 m²

TECHNICAL DATA

Electrical Data	
Supply voltage	AC 230 V ± 10% 50-60 Hz
Battery replacement time (power reserve)	> 30 Days (Programs stored in EEPROM)
Current output	Changeover, potential free
Current capacity - ohmic load	3 A / 250 V AC
Current capacity - inductive load cos.φ 0.6	1 A / 250 V AC
Rated impulse withstand voltage (Uimp)	4 kV
Accuracy	± 1 Second /Day at 20 °C
Battery	CR2032
Control function	Heating
Control type	2- Point (ON/OFF)
Hysteresis	±0,5 K / ±1 K
Control range	+5 °C ... +35 °C +10 °C (+5 °C ... +20 °C frost protection)
control accuracy	±0,5 °C
Sensor (thermistor)	100 K (at 25 °C) NTC

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

Operating specifications	
Operating mode	RUN/AUTO
Manual switch	Boost time Advance
Channels	3
Program	7 days 5-2 days 1-7 Days Advance Boost

	Holiday program
	Individual programming (max. 3 ON/OFF switching times)
	Daily program (ON/OFF)
	Weekly program (ON/OFF)

Display and format

Resolution	Room temperature 0.1 °C
	Temperature setpoint 1 °C
	Day time 1 minute
Display lighting	Light blue
Time format	12-hour format (AM/PM)
	24-hour format
Shortest switching time	Boost 1, 2, 3 hours
	ON/OFF 10 minutes
	Program Time 10 minutes
Room temperature display	+10 °C ... +50 °C
Summer/winter time	Automatic summer/winter time change
Clock	Digital
Status indicator	Operation mode
	Status display heating (LED)

Operating conditions

Humidity (operating)	10 % ... 90 % relative humidity, non-condensing
Humidity (storage)	10 % ... 90 % relative humidity, non-condensing
Temperature (operation)	±0 °C ... +50 °C
Temperature (storage)	-20 °C ... +50 °C

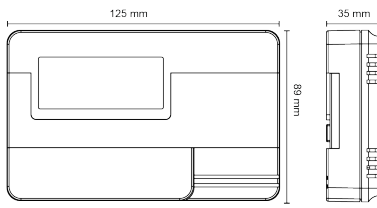
General specifications

Colour	White/Grey
Weight	330 g
Material	Plastic ABS
Dimension	125 x 89 x 35 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	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

DIMENSIONAL DRAWINGS



CIRCUIT DIAGRAMS

