

thermio™ eco - thermio™ eco C1

Item No 04.07.0005.1 / EAN Code 4010940045012



PRODUCT DESCRIPTION

The thermio™ eco C1 is a digital programmer and enables simultaneous control of central heating and hot water through a single switching output. 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
- ▶ 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
- ▶ Cost savings through integrated temperature control and frost protection function as no additional room thermostat for the control of the central heating is required
- ▶ Increased comfort through wide temperature control range
- ▶ Convenient and simple reading of information thanks to the back-lit display, even in low-light conditions
- ▶ Simultaneous control of central heating and hot water through a single switching output
- ▶ 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



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
control accuracy	+10 °C (+5 °C ... +20 °C frost protection)
Sensor (thermistor)	100 K (at 25 °C) NTC

Power connection	
Device	Screw terminal with wire protection max. 2.5 mm ²

Operating specifications	
Operating mode	RUN/AUTO
Manual switch	Boost time Advance
Channels	1
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

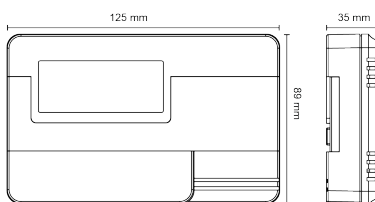
Humidity (operating)	10 % ... 90 % relative humidity, non-condensing
Humidity (storage)	10 % ... 90 % relative humidity, non-condensing
Temperature (operation)	±0 °C ... +50 °C
Temperature (storage)	-20 °C ... +50 °C

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

