



PHE1



CONTROLLER FOR ELECTRIC RADIATOR WITH FLUID INERTIA

Analogue controller with pilot wire 6 orders

Overview

Main features

- Ambient temperature control
- Desired temperature setting
- Power On / Standby
- Operating modes selection
- Remotely programmable using a 6-order pilot wire

Application

- Electric radiator with fluid inertia

Benefits

- **"Smart" electronic controller:** this means stable and accurate temperature in the room all year round
- **Integrated temperature sensor, which cannot be accessed from the outside:** the product is more resistant during shipment and when you are installing it
- **Ergonomic setting:** two ergonomic rotary knobs enable easy selection of the heating mode and of the desired temperature
- **Robust:** the triac and the relay zero crossing switching system optimize product life time
- **Easy to use**

Functional specifications

Use



| | |
|---------------------|---|
| Desired temperature | Adjustable from +7°C to +30°C |
| Operating modes | Auto (Programming), Comfort, Eco (Economy), Frost protection, Standby mode |
| Safety | <ul style="list-style-type: none"> - Power on/Standby - Internal protection against overheating faults by thermofuse - Protection mode activated in case of faulty detection short cut or open circuit detected on cartridge - Integrated dewatering system - Anti shock safety : a system located at the back of the housing prevent rotation / movement of it |
| Led status | Indicates mains presence, heating on and protection mode running |
| Relay | Low noise (optional) Zero crossing voltage control to reduce electromagnetic disturbances |

Installation

Housing assembly directly on the radiator

Connection to the heating electric cartridge by faston



Technical specifications

Dimensional and finish specifications

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|------------|---------|
| Height | 150 mm |
| Width | 80 mm |
| Depth | 67 mm |
| Color | White |
| Net weight | 0,27 Kg |

Power supply

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|---------------------|-----------------------|
| Voltage when in use | 230VAC +/- 10% 50Hz |
| Maximum power | 2000W, resistive load |
| Power cord | 1 m: 3 conductors |

Control

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|--------------|--|
| Control type | Electronic TPI (Time Proportional and Integral) control, triggered by a triac |
|--------------|--|

Environment

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|-----------------------------------|---|
| Protection rating | IP24 after installation under the responsibility of an integrator |
| Class | Class II after installation under the responsibility of an integrator |
| Operating temperature | 0°C to +40°C |
| Temperature setting range | +7°C to +30°C |
| Storage temperature | -20°C to +70°C |
| NTC electronic temperature sensor | |

Applicable guidelines

| | |
|------|------------|
| EMC | 2014/30/EU |
| LVD | 2014/35/EU |
| RoHS | 2011/65/EU |

Applicable standards

| | |
|---------------|---|
| EMC | EN55014-1 ; EN55014-2 ; EN61000-3-2 ; EN61000-3-3 |
| LVD | EN60335-1 ; EN60335-2-30 ; EN62233 |
| RoHS | EN50581 |
| Manufacturing | On certified site ISO 9001 V2008 |

Product code

| Code | Description |
|--------------|---|
| BXAPHE01A2PA | White analogue controller for radiator with fluid inertia, Class II, with pilot wire, triac, relay and power supply cable |

Product customization (Style, features) possible on request. Please contact us.