



PHE2



## 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
- **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"> <li>- <b>Power on/Standby</b></li> <li>- <b>Internal protection against overheating faults by thermofuse</b></li> <li>- <b>Protection mode activated in case of faulty detection short cut or open circuit detected on cartridge</b></li> <li>- <b>Integrated dewatering system</b></li> <li>- <b>Anti shock safety</b> : a system located at the back of the housing prevent rotation / movement of it</li> </ul>
Led status	Indicates mains presence, heating on and protection mode running
Relay	<b>Low noise</b> (optional) <b>Zero crossing voltage control</b> 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

Height	150 mm
Width	80 mm
Depth	67 mm
Color	White RAL 9016
Net weight	0,25 Kg

## Power supply

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

## Control

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

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 codes

Codes	Descriptions
BXAPHE02A2PA	White analogue controller for radiator with fluid inertia, Class II, with pilot wire, triac, relay and power supply cable
BXAPHE02A2PMBA	Black 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.