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	**- 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

IMHOTEP® création ZI Montplaisir - 258 Rue du Champ de Courses - 38780 Pont-Evêque - France - Tél. : +33 (0)4 74 58 39 56 - Fax : +33 (0)4 74 58 39 57 - contact@imhotepcreation.com - www.imhotepcreation.com

Technical specifications

Dimensional and finish specifications

Height	150 mm
Width	80 mm
Depth	67 mm
Color	White
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

Environment

Protection rating	IP24 after installation under the responsability of an integrator
Class	Class II after installation under the responsability 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.

IMHOTEP® création ZI Montplaisir - 258 Rue du Champ de Courses - 38780 Pont-Evêque - France - Tél. : +33 (0)4 74 58 39 56 - Fax : +33 (0)4 74 58 39 57 - contact@imhotepcreation.com - www.imhotepcreation.com