



# CONTROLS FOR ELECTRIC TOWEL RAILS

## CONTROLS FOR TOWEL RAILS



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### ZOPPAS INDUSTRIES HEATING ELEMENT TECHNOLOGY'S CONSTANT ATTENTION TO THE MARKET

The constant evolution of Zoppas Industries Heating Element Technology's concept of supply, no longer tied to a single component but to an integrated solution, has led us to develop increasingly avant-garde products that fully satisfy the needs of the market, in close collaboration with our customers. Our design office is at your disposal to plan customized solutions.

### DESIGN & ERGONOMICS

Common characteristics

Zoppas Industries Heating Element Technology offers a range of products where attention to aesthetics and simplicity of use become essential and indispensable characteristics.

### HYGIENE

Quick and easy

The Zoppas Industries Heating Element Technology range foresees the use of quality external plastic materials, making the product quick and easy to clean.

### STRENGTH

For a long working life

Zoppas Industries Heating Element Technology products are built with materials that will not change over time and are able to guarantee durability, even during intense use.

### CERTIFICATIONS

Safety and guarantee

All Zoppas Industries Heating Element Technology products conform to the standards in the EN 60335 or EN 60950 group, each depending on its field of application, and to the RoHS directive.

## IOT PLATFORM



CONNETTENDO

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## CIRCLE ATC Ambient temperature control



**CIRCLE ATC** is an electronic thermostat for towel rails. It is used to control the room temperature. Interface with big display to ensure the best useability and vision by the user. The display shows all the settings on the product. ECO-DESIGN COMPLIANT with open window detection and integrated weekly program. The control offers a stylish onboard interface with a new big display and capacitive buttons controls.

**CIRCLE ATC WIFI**  
The innovative Wifi User interface enables the control of the towel rails with a dedicated App from a device such as a tablet or smartphone both in Android or iOS operative systems. The smart interface offered by the App maximizes the useability of the device and increases the number of innovative features such as the weekly programming.

### Main Characteristics

- Electronic power control designed to be used in towel rails filled with water, water and glycol or diathermic oil
- Available models: Electronic temperature level regulation
- PID control loop logic ensure accurate temperature control
- Weekly program
- Boost function
- Open window detection
- Antifreeze mode: 7°C min
- Very compact design
- Easy to use
- Ambient temperature regulation range: from 17°C to 25°C
- Software upgrade function (via App)



#### Applicable Directives:

**RED:**  
*(2014/53/EU) Radio Equipment Directive*

**LVD:**  
*2014/35/EU Low Voltage Directive*

**EMC:**  
*2014/30/EU Electromagnetic Compatibility*

**ErP:**  
*2009/125/EC Energy related Products EcoDesign*

#### Applicable Standard:

**LVD:**  
*EN60335-1  
EN60335-2-30  
EN60335-2-43  
EN62233*

**EMC:**  
*EN55014-1  
EN55014-2  
EN61000-3-2  
EN61000-3-3*



### Technical characteristics

Power Supply & Maximum power	230 V @ 50 Hz 1200 max
Insulation class	I & II
Control Type	Electronic PI with hybrid relay + triac with microprocessor control
Class of protection against liquids	IPx4
Dimensions	61 x 70 x 48 mm
Net Weight	0,250 Kg
Available plastic colour	White, Chrome
Radio Interface	Wifi (app iOS and Android)
Weekly Programming	Complete on board & by App
Boost	Yes
Operating Temperature	0 to 50 °C @ 85 % humidity
EC1275-2008 "Eco Design	Compliant



## LOOP ATC Ambient temperature control



**LOOP ATC** is an electronic thermostat for towel rails. It is used to control the room temperature. The user interface panel is inclined for ease of use and improved visibility. The display shows all the settings on the product. ECO-DESIGN COMPLIANT with open window detection and integrated weekly program. The control offers a stylish onboard interface with a new big display and capacitive buttons controls.

**LOOP ATC WIFI**  
The innovative Wifi User interface enables the control of the towel rails with a dedicated App from a device such as a tablet or smartphone both in Android or iOS operative systems. The smart interface offered by the App maximizes the useability of the device and increases the number of innovative features such as the weekly programming, software upgrade.

### Main Characteristics

- Electronic power control designed to be used in towel rails filled with water, water and glycol or diathermic oil
- Available models: Electronic temperature level regulation
- PID control loop logic ensure accurate temperature control
- Weekly program
- Boost function
- Open window detection
- Antifreeze mode: 7°C min
- Very compact design
- Easy to use
- Ambient temperature regulation range: from 17°C to 25°C
- Software upgrade function (via App)



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*EN62233*

**EMC:**  
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*EN55014-2*  
*EN61000-3-2*  
*EN61000-3-3*



### Technical characteristics

Power Supply & Maximum power	230 V @ 50 Hz 1500 W max
Insulation class	I & II
Control Type	Electronic PI with hybrid relay + triac with microprocessor control
Class of protection against liquids	IPx4
Dimensions	140 x 64 x 70 mm
Net Weight	0,310 Kg
Available plastic colour	White, Chrome
Radio Interface	Wifi (app iOS and Android)
Weekly Programming	Complete on board & by App
Boost	Yes
Operating Temperature	0 to 50 °C @ 85 % humidity
EC1275-2008 "Eco Design	Compliant

## STONE ECO PLUS - ECODESIGN COMPLIANT Ambient temperature control



STONE is a Bluetooth Low Energy room temperature control for electric towel rails filled with water, water and glycol or diathermic oil. It must be used in combination with a Zoppas Industries heating element. The innovative Bluetooth User interface enables the control of the towel rails with a dedicated App from a device such as a tablet or smartphone both in Android or iOS operative systems. The smart interface offered by the App maximizes the usability of the device and increase the number of innovative features such as the weekly programming, software upgrade, energy consumption and remote diagnostic. The control offers a stylish onboard interface with a new OLED display capacitive buttons and RGB led. ECODESIGN COMPLIANT with open window detection and integrated WEEKLY program. STONE is available in two different versions, the standard version and wall-in version with a switch and a telescope to cover the power cord installed in the wall.

### Main Characteristics

- Electronic room temperature control for towel rails filled with water, water and glycol or diathermic oil
- Power mode: control the power of the heating element fitted in the towel rail (only via APP)
- High precision electronic PID temperature regulation
- Weekly program • Boost function
- 6-orders pilot wire option • Dedicated On/Off button
- Energy consumption statistic (via App)
- Compact design
- Embedded temperature sensor
- Software upgrade function (via App)
- Open window detection



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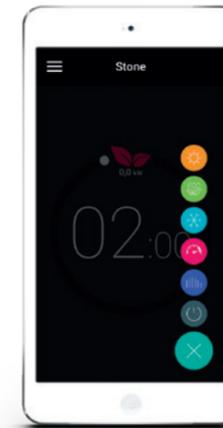
**ErP:**  
*2009/125/EC Energy related Products EcoDesign*

#### Applicable Standard:

**LVD:**  
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*EN60335-2-30*  
*EN62233*

**EMC:**  
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*EN55014-2*  
*EN61000-3-2*  
*EN61000-3-3*

**ErP:**  
*COMMISSION REGULATION (EU) 2015/1188*  
*COMMISSION REGULATION (EC) 1275/2008*



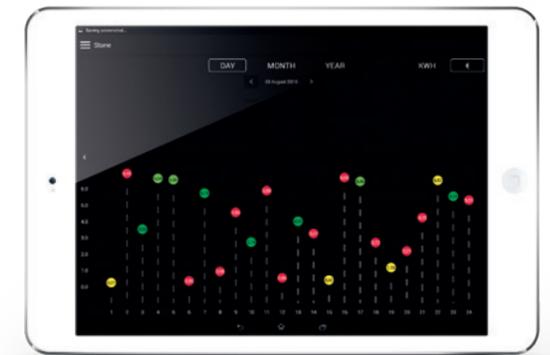
APPLICATION  
**STONE CONNECT BLE**  
Available on:



for custom project

### APPLICATION (ANDROID & iOS)

Control individual towel rails with your Android and iOS App. Improve your home's heating performance and save on your energy costs. Schedule your day with an easy and intuitive interface.



### Technical characteristics

Power Supply	230 V @ 50 Hz
Insulation class	I & II
Maximum power of the heating element	1800 W
Control Type	Electronic PI or power regulation mode with microprocessor (Relay)
Class of protection against liquids	IPx4
Dimensions (H x L x W)	48 x 75 x 50 mm
Net Weight	0.25 kg
Available plastics color	White, Chrome (mirror finishing)
Radio Interface	Bluetooth Low Energy (app iOS and Android)
Weekly Programming	up to 13 temperature set per day by App
Fil-Pilote	6 orders (Only class II)
Boost	Yes, programmable by App
Operating Temperature	0 to 50 °C @ 85 % humidity
EC1275-2008 "Eco Design"	Compliant

## WHISTLE ECO PLUS Ambient temperature control



WHISTLE ECO PLUS is an electronic thermostat for towel rails. It is used to control room temperature without being affected by external conditions or by the temperature of the towel rail. The display shows all the settings on the product. The operating modes can also be controlled via Fil-Pilote (option available only in a class 2 product). ECO-DESIGN COMPLIANT with open window detection and integrated weekly program.

### Main Characteristics

- Electronic room temperature control for towel rails filled with water, water and glycol or diathermic oil
- High precision PID electronic temperature regulation
- Room temperature regulation from 15°C to 30°C
- 6-orders Fil-pilot available on request
- Weekly program
- Compact design
- Boost mode function
- Embedded temperature sensor
- Open window detection mode



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#### Applicable Standard:

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**EMC:**  
EN55014-1  
EN55014-2  
EN61000-3-2  
EN61000-3-3

**ErP:**  
COMMISSION REGULATION (EU) 2015/1188  
COMMISSION REGULATION (EC) 1275/2008

## WHISTLE ECO PLUS Room temperature control



WHISTLE ECO PLUS is an electronic control unit designed to regulate the room temperature with two levels of settings. It has also a boost function at maximum power for two hours and a timer function to select one of the two temperatures set depending on the time and the day of the week. It must be used in combination with a Zoppas Industries heating element.

The display shows the time, the day of the week, the temperature set, weekly program graph and the operating modes.



ON/OFF button changes the operating mode, sets the bar of the weekly program graph and the room temperature. The operating modes are: room temperature level (regulates the temperature not considering the timer program), timer, anti-freeze (energize the heater when room temperature is below 7°C), boost function and Fil-Pilote (via black dedicated wire).

### Technical characteristics

Power Supply	230 V @ 50 Hz
Insulation class	I, II and II with Fil-Pilote
Maximum power of the heating element	2000 W
Control Type	Electronic PI with microprocessor (Relay)
Class of protection against liquids	IPx4
Dimensions (H x L x W)	72 x 140 x 60 mm
Net Weight	0.25 kg
Available plastics color	White, Chrome
Weekly Programming	Yes
Fil-Pilote	6 orders (Only class II with Fil Pilote)
Boost	2H
Operating Temperature	0 to 50 °C @ 85% Humidity
Eco-Design Compliant	Equipped with weekly program and open window detection



## MOEBIUS II Surface temperature electronic control for towel rails



MOEBIUS is an electromechanical thermostatic water temperature heating system for towel rails filled with water, water and glycol or diathermic oil. The thermostatic control is fixed to a PTC Class I heating element and have a cable. The heating system can be installed in a stand alone towel rail or a towel rails connected to the central heating system. Water temperature regulation range from 5°C to 70°C.

### Main Characteristics

- Electromechanical thermostatic heating system water temperature heating system for towel rails filled with water, water and glycol or diathermic oil
- Suitable for both stand alone towel rail or a towel rails connected to the central heating system
- Water temperature regulation range from 5°C to 70°C
- Compact design (53mm dia) adapt to vertical and horizontal mounting
- Supplied as a kit with PTC heating element 1/2" threaded connection
- Easy to use: knob with LED interface

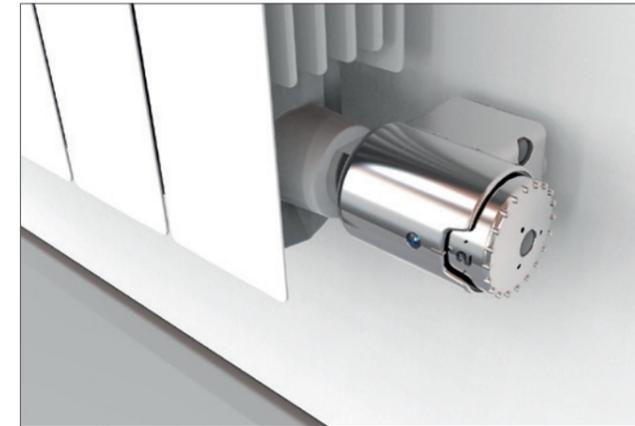


#### Applicable Directives:

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**EMC:**  
2014/30/EU Electromagnetic Compatibility

#### Applicable Standard:

**LVD:**  
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EN60335-2-30  
EN62233  
**EMC:**  
EN55014-1  
EN55014-2  
EN61000-3-2  
EN61000-3-3



### Technical characteristics

Power Supply	230 V @ 50 Hz
Insulation class	I
Maximum power of the heating element	150 W - 300 W - 500 W - 600 W - 800 W
Control Type	Electromechanical switch with PTC heater and capillary bulb
Class of protection against liquids	IPx4
Dimensions (H x L x W)	87 x 53 x 88 mm
Net Weight	0.20 kg (without heater)
Available plastics color	White, Chrome
Operating Temperature	0 to 70 °C @ 85 % humidity



**VARIHEAT**  
Surface temperature electronic control for towel rails



VARIHEAT is an electronic thermostatic water temperature heating system for towel rails filled with water, water and glycol or diathermic oil. The thermostatic control is fixed to a Class I electric heating element provided with an NTC water temperature sensor and a safety thermal fuse. The heating system regulate the temperature of the water inside the towel rail using the bottom knob. The temperature set point is showed by four LEDs placed just above the bottom knob. The outer diameter of VARIHEAT is 32mm. Water temperature regulation range: from 35°C to 65°C



**Main Characteristics**

- Electronic thermostatic water temperature heating system for towel rails
- Totally integrated with the Towel Rail design
- Easy to use: knob with LED interface
- Compact design
- Mechanical strength: housing made in steel
- Supplied as one unit with thermostatic control and electric heating element fixed together
- Water temperature regulation range: from 35°C to 65°C
- Antifreeze mode: 5°C
- Standard wattages: 200W - 400W - 600W



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EN61000-3-3



**Technical characteristics**

Power Supply	230 V @ 50 Hz
Insulation class	I
Maximum power of the heating element	200 W – 400 W – 600W
Control Type	Hysteresis with microprocessor
Class of protection against liquids	IP55
Dimensions (D x H)	32 x 95 mm
Net Weight	0.20 kg (without heating element)
Available plastics color	White, Chrome
Operating Temperature	0 to 50°C @ 85 % humidity



## SHORTY PW Power control for towel rails



SHORTY PW is an electronic power control designed to be used in towel rails for drying towels. It must be used in combination with a Zoppas Industries heating element and regulate its electric power using a dedicated knob.



### SHORTY PW

SHORTY PW It is an electronic power level control that regulates the power of the heating element fitted into the towel rail. The power level control knob allows the user to switch from stand-by mode, left position, to power regulation mode. Linear regulation from 20% to 100% of power of the heating element. Position 9 means full power to the heating element constantly.



### SHORTY SW

SHORTY SW is an ON - OFF control for the towel rail heating element. The switch controls the switching on or off of the heating element inside the radiator, its lighted indicator immediately shows the status of the heater.

## Main Characteristics

- Electronic power control designed to be used in towel rails filled with water, water and glycol or diathermic oil
- Available models:  
Electronic power level regulation (SHORTY PW)  
Simple ON/OFF switch (SHORTY SW)
- Very compact design
- Easy to use



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EN60335-1  
EN60335-2-43  
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EN62233  
**EMC:**  
EN55014-1  
EN55014-2  
EN61000-3-2  
EN61000-3-3

## Technical characteristics

	SHORTY PW	SHORTY SW
Power Supply	230 V @ 50 Hz	
Insulation class	I & II	I & II
Maximum power of the heating element	2000 W	
Control Type power level from 20% to 100% of the nominal power	Electronic with microprocessor (Relay)	ON - OFF manual regulation
Class of protection against liquids	IPx4	
Dimensions (H x L x W)	78 x 65 x 41 mm	
Net Weight	0.15 kg	0.13 kg
Available plastics color	White, Chrome	
Operating Temperature	0 to 50 °C @ 85% Humidity	





**CONNETTENDO**

[www.connettendo.com](http://www.connettendo.com)



# CONNETTENDO

“Connecting your devices, understanding your business”



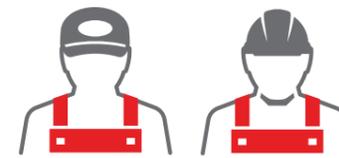
[www.connettendo.com](http://www.connettendo.com)

## IoT Platform



MANUFACTURER

Analytics for marketing opportunity, customer profiling, supply chain optimization, predictive service and maintenance, real time tracking



WHOLESALER INSTALLER

Customer engagement, real time monitoring, preventive maintenance

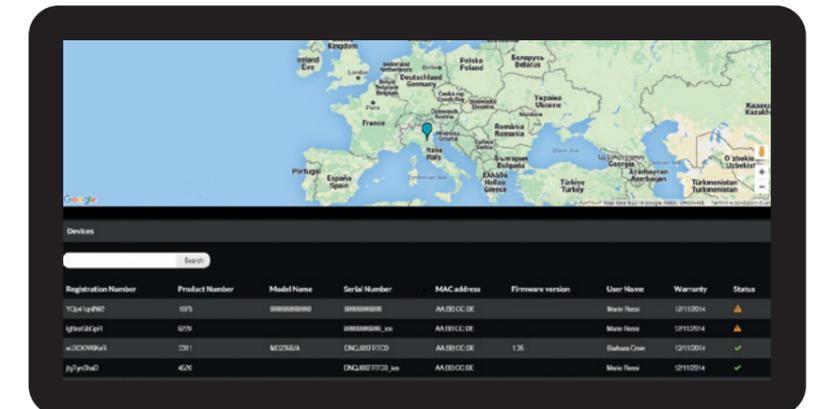
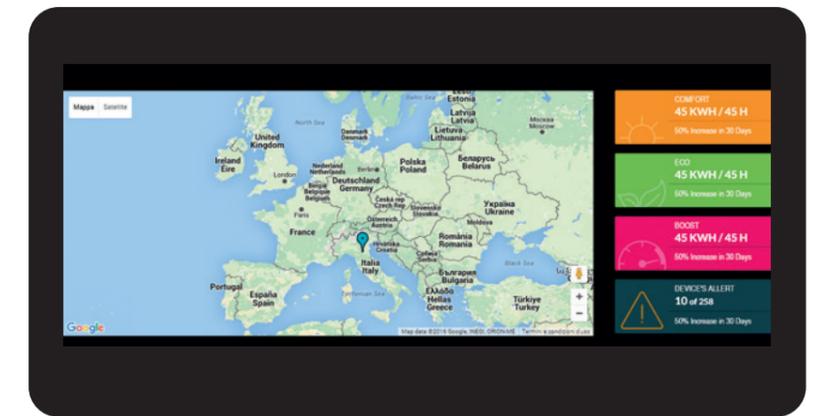


END CUSTOMER

Smart Home experience, Energy saving, Enhanced user experience



## CONNETTENDO



**60** Years of experience in design and production of heating elements and systems

**15** The countries where you can find us



## ZOPPAS INDUSTRIES Partner

- Experience Zoppas Industries increasing efficiency using lean enterprise across all facilities and departments.
- Access our state-of-the-art laboratory facilities with over 30 years' design experience.
- Benefit from Zoppas Industries manufacturing and design facilities which maintain Quality Management Systems according to ISO 9001, EN 9100 and IATF 16949, Environmental Management System according to ISO 14001 and Energy Management System according to ISO 50001.
- Access one of the widest Heating Element Technology product portfolios in the world including completely integrated thermal assemblies with sensors, connectors, enclosures, etc.
- Benefit from Zoppas Industries global presence through design and manufacturing facilities across Europe, North America, South America and Asia - lowering your Total Cost of Ownership (TCO) including reduced logistics, design, communication and support costs.
- Access Zoppas Industries' in-house design, development and R&D capabilities, such as CAD 3D design, FEA, DOE, FMEA.
- Benefit from Zoppas Industries products third-party certification, such as UL and VDE: marking applied on customer's request.

We at ZOPPAS INDUSTRIES put you in the front seat of internationalization - sourcing your local needs globally.



### PRODUCT TRADEMARKS



Compliance with the mark of each specific product must be properly reviewed with our Sales Department.

### COMPANY CERTIFICATIONS





**Zoppas Industries**  
*Heating Element Technologies*

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