

# BeSMART

A SMARTER THERMOSTAT



**Declaration of conformity**

The remote control is according the:

- Directive 2004/108/EC - electromagnetic compatibility
- Low Voltage Directive (LVD) 2006/95/EC

Manufacturer / Brand : **Riello SpA / BeSMART**

Model: **BeSMART**

**Declaration about the Efficiency Class of the BeSMART control, according to the ErP regulation**

With reference to the Commission Delegated Regulation (EU) 811/2013, the data declared in the table below may be used for the completion of the 'Technical Fiche' and the 'System/Package' label for space heaters or combination heaters, temperature control and solar device/contribution

Boiler specifications	BeSMART configuration	Class and contribution
Boiler with flow temperature value fixed (ON/OFF control)	BeSMART connected in ON/OFF	<b>I = 1%</b>
Boiler with modulating flow temperature (control via bus communication protocol)	BeSMART connected via bus communication protocol. Calculation of the boiler flow temperature based solely according to the room temperature.	<b>V = 3%</b>
Boiler with modulating flow temperature (control via bus communication protocol)	BeSMART connected via bus communication protocol. Calculation of the boiler flow temperature based according to the room temperature and external temperature (value provided by external sensor or via web).	<b>VI = 4%</b>
Boiler with modulating flow temperature (control via bus communication protocol)	BeSMART connected via bus communication protocol. Calculation of the boiler flow temperature based on 3 separate room temperatures/zones. This requires 3 BeSMART (sensors) connected to 3 zone valves (actuators).	<b>VIII = 5%</b>

## Definition of temperature controls classes

**Class I** - ON/OFF Room Thermostat: A room thermostat that controls the on/off operation of a heater. Performance parameters, including switching differential and room temperature control accuracy are determined by the thermostat's mechanical construction.

**Class V** - Modulating room thermostat, for use with modulating heaters: An electronic room thermostat that varies the flow temperature of the water leaving the heater dependent upon measured room temperature deviation from room thermostat set point. Control is achieved by modulating the output of the heater.

**Class VI** - Weather compensator and room sensor, for use with modulating heaters: A heater flow temperature control that varies the flow temperature of water leaving the heater dependent upon prevailing outside temperature and selected weather compensation curve. A room temperature sensor monitors room temperature and adjusts the compensation curve parallel displacement to improve room comfort. Control is achieved by modulating the output of the heater.

**Class VIII** - Multi-sensor room temperature control, for use with modulating heaters: An electronic control, equipped with 3 or more room sensors that varies the flow temperature of the water leaving the heater dependent upon the aggregated measured room temperature deviation from room sensor set points. Control is achieved by modulating the output of the heater