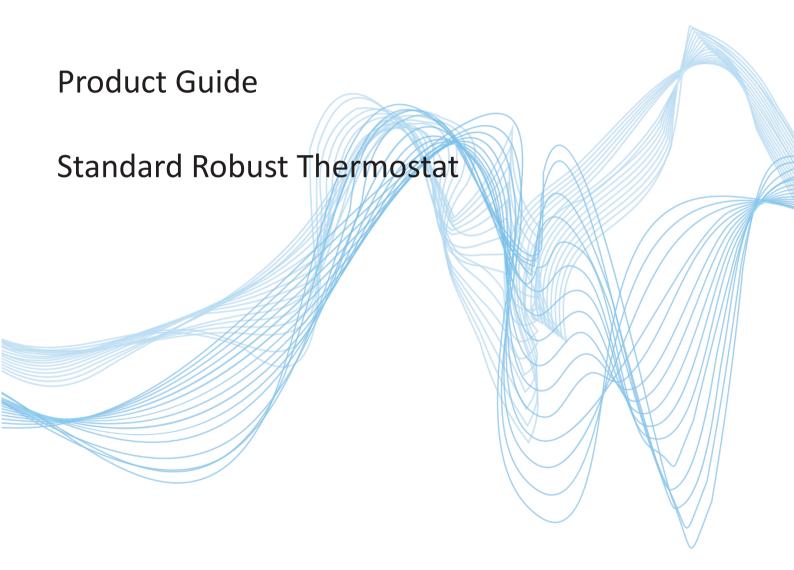


E815+ADJ E815/24V+ADJ



today, tomorrow and in the future

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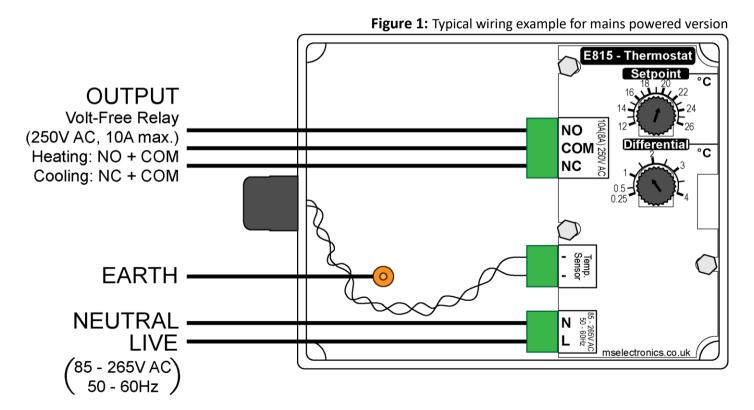
Product Overview

The E815+ADJ offers a high quality and robust solution to tamperproof energy saving thermostatic control. It utilises a high-accuracy radiant heat sensor in conjunction with its die-cast aluminium case and tamperproof screws to ensure vandal-resistant yet accurate tamperproof energy control.

The E815+ADJ regulates to a fully adjustable temperature set-point between +12°C and +26°C, combined with an adjustable temperature hysteresis (differential) of anything between 0.25°C and 4°C. The temperature Setpoint is adjustable by the end-user by -2°C to +2°C from the setpoint programmed at installation. This provides satisfaction to the end-user as they can have an input to the room temperature but also provides significant savings to the bill payer as they are able to permanently limit the maximum temperature the end-user is capable of selecting.

Product Wiring

- 1. **IMPORTANT**: ensure all electrical connections are isolated before commencing any work on the unit.
- 2. Power to the thermostat is provided via the Live and Neutral input terminals labelled "L" and "N" (230V AC, 50Hz). On the 24 volt product variant ("/24V") the same terminals are used (24V AC or DC) and are not polarity sensitive.
- 3. **NOTE**: This thermostat MUST be earthed using the earth terminal provided.
- 4. A voltage-free changeover relay output capable of switching loads of up to 10A, 250V AC (resistive) is provided by the thermostat. Connect to your application in an appropriate manner given the following:
 - The Common "COM" terminal is connected to the Normally Open "NO" terminal when the sensed temperature is below the "Setpoint" temperature (use to control heating).
 - Conversely, the "COM" terminal is connected to the Normally Closed "NC" terminal when the sensed temperature is above the "Setpoint" temperature (use to control air conditioning).
- 5. The temperature sensor is factory fitted to all models with the exception of the Remote Sensor product variant ("/RS"). A 2-core screened cable connection should be made between the remote sensor and the "Temp. Sensor" terminals in this case. The screen should be connected to the earth terminal ONLY (do not connect the screen to anything at the remote sensor end).



Issue 2.1

Installation

- 1. **IMPORTANT**: ensure all electrical connections are isolated before commencing any work on the unit.
- 2. Unscrew the 4 security screws using MS Electronics tamperproof screwdriver MSD-152 to remove the front cover. Disconnect the wire at the in-line connector to completely remove the lid.
- 3. Mount the unit securely using any suitable fixing in conjunction with the mounting holes provided in the unit. For optimal results, position the temperature sensor out of direct sunlight and well away from any heating/cooling sources.
- 4. Connect the wiring as shown in the diagram (or any suitably appropriate form) using the convenient pluggable terminal blocks provided. Make sure to choose the correct output terminals that are suitable to your application.
- 5. On the remote sensor version, 2-core screened cable should be used to connect the remote sensor to the thermostat. The screen should be connected to the earth terminal ONLY (do not connect the screen to anything at the remote sensor end).
- 6. Adjust the internal controls to suit the operational requirements (see below).
- 7. Re-connect the in-line connector and replace the cover securely using the 4 security screws.

Operation

- 1. **IMPORTANT**: ensure all electrical connections are isolated before commencing any work on the unit.
- 2. Adjust the "Setpoint" dial to the temperature the room is to be regulated to (typically 20°C).
- 3. Set the "Differential" to the total temperature swing either side of the "Setpoint" that the room temperature is required to keep within (typically 1°C).
- 4. Example of a typical set-up:
 - Setpoint set to 20°C, Differential set to 1°C.

The unit will maintain the temperature between 19.5°C and 20.5°C.

5. Room User

Select the 'Room Temperature Adjustment' dial to either decrease or increase the room temperature by 2°C.

Technical Specification	
Power supply:	85V - 265V AC 50Hz (live/neutral/earth) 22V - 26V AC or DC ("/24V" variant only)
Output switch rating:	10A, 250V AC (resistive)
Output switch type:	Changeover relay (volt-free)
Temperature control:	+12°C to +26°C
Temperature differential:	0.25°C to 4°C
Sensor accuracy:	±0.2°C
Sensor drift:	0.15°C over 5 years
Guarantee:	3 Years
Weight:	0.35Kg
Dimensions:	120mm x 95mm x 36.5mm

Product Accessories	
MSD-152	MS Electronics tamperproof screwdriver
MSD-150	Air temperature sensor (sensor only)
MSD-224	Air temperature sensor (internal box)
MSD-370	Air temperature sensor (internal faceplate)

Issue 2.1

Technical Support

For further help or information on this and the other products in the MS Electronics range visit www.mselectronics.co.uk or call 0333 666 1176.

Alternatively, email techsupport@mselectronics.co.uk

Additional copies of this product guide can be downloaded from our website.

Product Warranty

MS Electronics guarantees all their products against manufacturing defects for 3 years from the purchase date. If your product is found to be faulty, MS Electronics will, at their discretion, repair or replace the product free of charge.

Note

Any modification or damage to the outer casing of the product, as well as any damage to the product due to abuse or incorrect wiring may invalidate the guarantee.

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