



WR-304 Essence Wireless RF Wi-Fi Thermostat

Precision Wireless Control for Modern Living



Product Description

The WR-304 Essence provides robust wireless control for underfloor heating, eliminating the need for complex cable runs in retrofit or new build projects. Fully compliant with Part L and Ecodesign standards, it features intelligent "Optimum Start" learning to ensure target temperatures are met precisely on schedule. Integrated with the Smart Life app via the WR-300 Gateway, it offers homeowners seamless remote management while delivering reliable RF communication (868 MHz) to the KF-304 Wiring Centre for precise zonal regulation.

Key Features

- **Regulatory Compliance:** Features "Optimum Start (Advanced option ES)" adaptive learning to ensure precise temperature management, meeting **Part L (Conservation of Fuel and Power)** mandates for energy efficiency.
- **Wireless Installation:** Utilises robust 868 MHz Frequency Shift Keying (FSK) for a 100m open range, simplifying installation by removing the need for wall chasing or hardwired connections.
- **Smart Ecosystem:** Connects seamlessly to the Tuya/Smart Life ecosystem via the WR-300 Gateway, enabling remote scheduling and voice control compatibility with Google Assistant and Amazon Alexa.
- **Peace of Mind:** Backed by a comprehensive 5-year warranty and a £5 million manufacturing defect indemnity policy, ensuring long-term reliability for professional installers and property owners.

Technical Specification

Item	WR-304 Essence Wireless RF Wi-Fi Thermostat
Product Code	WRLZ-0304
Application	Wet Underfloor Heating, Zonal Heating
Power Source	2 x AA (LR6) 1.5 V alkaline batteries
Connectivity	RF 868 MHz (FSK) to Receiver; Wi-Fi 2.4GHz (via WR-300 Gateway)
Sensor Accuracy	0.1°C (high precision)
Temperature Range	5°C–35°C (Default Setpoint) / 0°C–50°C (Display)
Protection Rating	IP21
Dimensions	86mm x 86mm x 25mm (Surface Mount)
Compliance	CE, RoHS, RED, PSTI Act, Part L, BS EN 1264

Associated Products

- **Compatible Devices:** KF-304 Wiring Centre (Central Control), WR-300 Gateway.
- **App Compatibility:** Smart Life app, Tuya Smart.
- **Support:** Dedicated troubleshooting app for "Offline Fix" and DHCP reservation issues.

CE RoHS RED PSTI ACT **PART L** **BS EN 1264**



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DS-WC-WR-304-MAR26-V1.0



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Digital Data Table

Variable	Value
Uniclass 2015	Pr_70_60_36_73 (Room Thermostats)
Asset Type	Wireless HVAC Control
Housing Material	Polycarbonate
Recyclability	WEEE Compliant

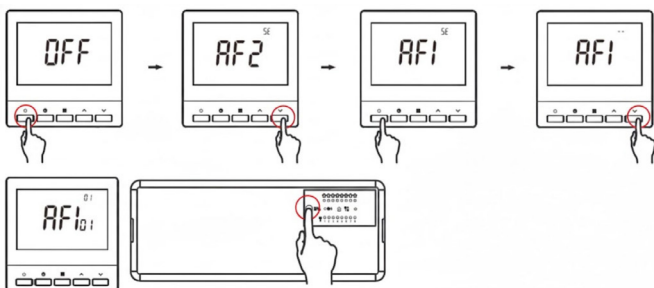
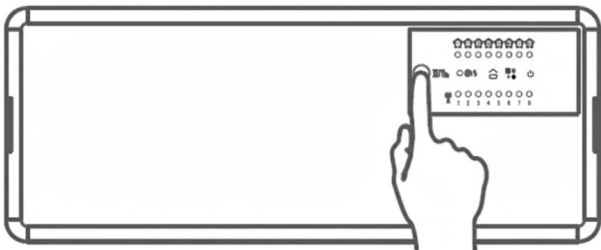
Specification Clauses

The thermostat shall be a Whisper Controls WR-304 Essence. The manufacturer must provide a valid 5-year warranty from the date of installation. The product must be backed by a proven manufacturing defect indemnity policy with a limit of £5 million per incident. Any proposed alternatives must be submitted for technical review 14 days prior to the tender return date, accompanied by independent verification of RF wireless range (100m) and Tuya ecosystem compatibility.

Installation

The WR-304 is a battery-operated wireless unit requiring no physical wiring to the heating system. It pairs via RF (868MHz) to the KF-304 Wiring Centre (Signal: RF1) and WR-300 Gateway (Signal: RF2). Ensure batteries are high-quality, non-rechargeable alkaline types.

Pairing Method



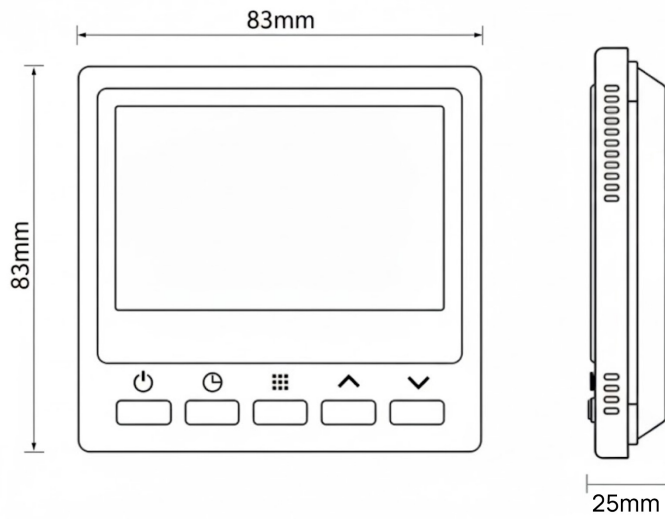


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Product Dimensions (mm)



Mounting Detail

