

DT-130 230v Ascent Electronic Analogue Dial Thermostat



Product Overview



The DT-130 is a simple electric analogue thermostat that is designed for direct wall installation. It features a dial for temperature adjustment and OFF mode, along with a side switch for selecting summer or winter mode. An LED indicator signals heating periods. It can control wiring centres, thermal actuators or voltage-free devices like gas boilers and heat pumps. Key functions include user-friendly dial operation, heating/cooling mode selection, non-programmability, frost protection in OFF mode, and compatibility with an external 10k NTC remote sensor for enhanced floor protection within a +15°C to +35°C range.

Technical Data

Item	DT-130 230v Ascent Electronic Analogue Dial Thermostat
Product Code	ADT2-0130
Dimensions	86mm x 86mm x 31.5mm
Mounting Type	On Wall Flush Mounted, requires 35mm backbox
Weight	0.09kg
Colour	White
Voltage	230V AC 50Hz
Power Consumption	<0.5 W
Max Load Current	3Amp
Protection Rating	IP20
Probe Sensor	10K Ω NTC 3950 (TP-200 Not Included) Floor Overheat Protection
Working Temperature	5°C–35°C
Accuracy	+/- 1°C
Housing Material	ABS+PC
Programming Ability	Non Programmable
Compliance	EN60730-1, EN60730-2.7, CE
Compatibility	None

Features

Appearance

- Classic dial control for simple temperature adjustment.
- LED indicator to visually signal heating periods.
- Compact design for direct wall installation.
- White finish for a clean aesthetic.
- Designed for flush mounting with a standard 86mm square backbox.

Functionality

- Heating and cooling mode selection via a side switch.
- Controls wiring centres, thermal actuators or voltage-free devices.
- Non-programmable for straightforward operation.
- Frost protection mode to prevent freezing.
- Compatibility with an external 10k NTC remote floor sensor for overheat protection

Safety

- This product should be installed by a qualified electrician.
- Ensure that the electrical wiring of the installation and connections to and from the thermostat and any remote sensor connected to it are in accordance with BS7671, the latest edition of IET wiring regulations.
- The thermostat must be wired to the electric mains through a switch capable of disconnecting all poles compliant with the current safety standards and with a contact separation of at least 3mm in all poles.
- Before commencing work on the installation, the electricity supply must be disconnected.
- During installation earthing a metal back box is critical to ensure fault current is safely directed to ground, thereby maintaining compliance with electrical safety standards and reducing the risk of exposed conductive parts becoming live during a fault condition

Disposal



This product should not be disposed of in household waste. The product should be disposed of in accordance with your local waste and recycling schemes.

Box Contents

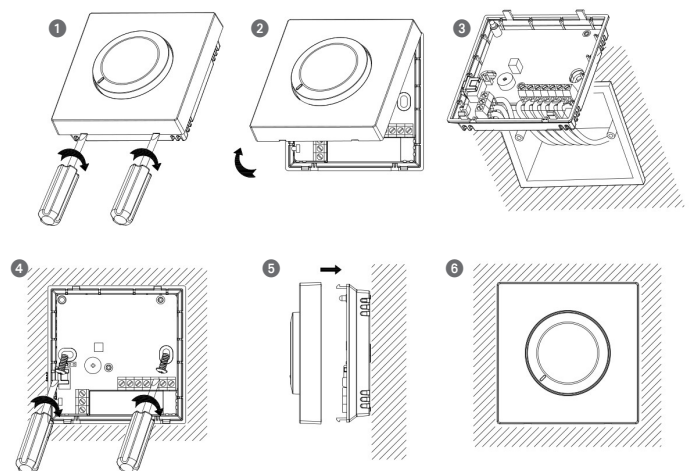
1 x DT-130 Thermostat
2 x M3.5 x 35mm screw
Installation Guide

Installation

For optimal performance, position your thermostat approximately 1.5 metres from the floor, ensuring it's away from direct sunlight, heat sources like radiators or cookers, and drafts; maintain clear airflow around the unit by avoiding obstructions, and when disabled access is a requirement, the installation height must be reduced to below 1.2 metres to comply with accessibility standards.

The thermostat is designed to be flush mounted and requires a back box of 35mm (minimum depth) to be sunk into the wall prior to installation.

1. Using a small screwdriver, slightly loosen the bottom face of the thermostat.
2. Carefully separate the front half from the back plate.
3. Place the thermostat front somewhere safe.
4. Terminate the thermostat as shown in the diagram.
5. Screw the thermostat back plate securely into the back box.
6. Clip the front of the thermostat onto the back plate.



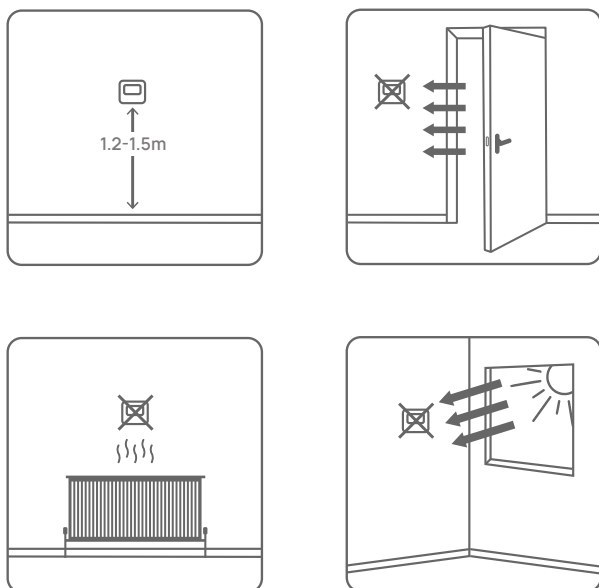
Whisper Controls Limited

Unit 9 Stanton Harcourt Industrial Estate, Standlake, Witney, Oxon, OX29 5UX, United Kingdom

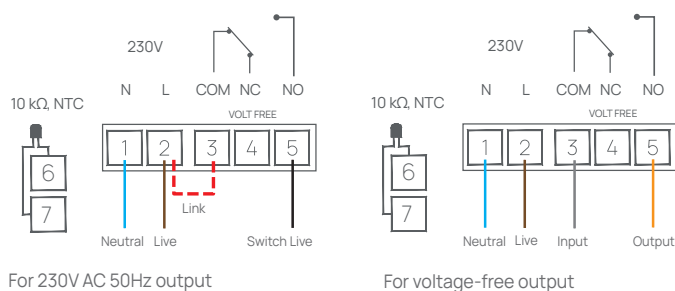
Tel: +44 (0)1993 640073 whispercontrols.com

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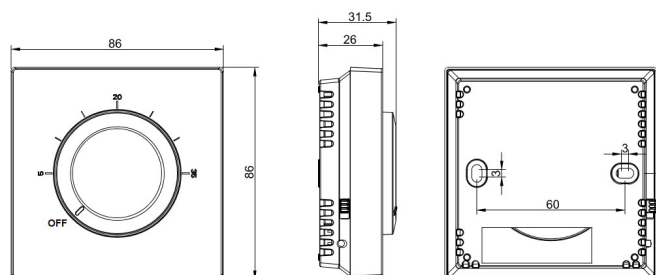
Placement



Wiring Diagrams



Dimensions (mm)



Operating Instructions

Heating Mode

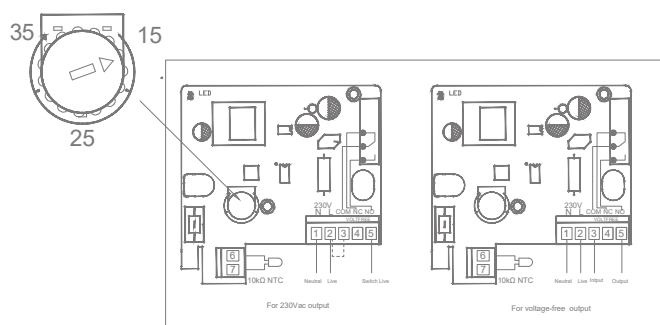
The dial thermostat provides straightforward temperature regulation. For heating applications, ensure the lateral selector switch is set to 'Heating' mode. Rotate the dial to the desired temperature setpoint, indicated by the numerical values on the dial face. Clockwise rotation increases the setpoint, resulting in a warmer room environment; conversely, anticlockwise rotation decreases the setpoint, leading to a cooler environment. It is imperative to establish the room temperature setpoint in accordance with the design parameters of the installed heating system, ensuring optimal performance. Furthermore, when utilised with underfloor heating systems, adherence to any temperature limitations specified by the floor covering manufacturer is essential. Refer to the system design documentation for recommended temperature settings.

Cooling Mode

For cooling applications, the thermostat's lateral selector switch must be set to 'Cooling' mode. In this configuration, the thermostat provides a switched live output signal when the ambient room temperature exceeds the user-defined setpoint. This signal activates the connected cooling device, initiating cooling operation to regulate the room temperature. Ensure correct mode selection for proper cooling system functionality.

Remote Sensor Floor Overheat Protection

The thermostat incorporates an external floor overheat sensor input, designed for compatibility with a 10K Ω NTC 3950 TP-200 sensor, facilitating the implementation of a maximum floor temperature limit. This limit is configured using the adjustable dial located beneath the thermostat's cover, allowing the installer to define the desired maximum floor temperature setpoint. Upon installation, the external floor sensor, correctly positioned within the floor structure, provides continuous monitoring of the floor surface temperature. If the sensor registers a temperature exceeding the configured limit, the thermostat will immediately interrupt heating operation. This protective function prevents potential damage to the floor covering and ensures compliance with manufacturer-specified temperature limitations. Accurate positioning of the floor sensor is essential for optimal system performance, control and safety.



Frost Protection Mode

The Frost Protection Mode maintains a minimum ambient temperature to mitigate the risk of freezing. When the thermostat is in the 'OFF' mode, it enters Frost Protection Mode. By default, if the room temperature falls below 5°C, the thermostat will activate the heating system until the ambient temperature reaches the 5°C setpoint. This function is designed to prevent potential damage to the building's infrastructure due to freezing temperatures.