



TS-35 230V Ascent Thermal Actuator

2-Wire, Normally Closed (NC) with Manually Open (MO) Clip
Precision Actuation for Zonal Control



Product Description

The TS-35 is a professional-grade 230V electrothermal actuator engineered for high-reliability multi-zone underfloor heating (UFH) and HVAC control. Designed for seamless integration into residential and commercial environments, it provides a robust solution for complex zonal heating systems. The unit features a unique 90-degree Manually Open (MO) clip that allows the actuator to remain open without electrical power, significantly reducing commissioning and system filling time.

Key Features

- **Intelligent Efficiency & Compliance:** Facilitates precise zonal control to support the conservation of fuel and power as mandated by Building Regulations Approved Document L.
- **Innovative Commissioning:** Features a unique manual bypass switch that allows the valve to be locked open mechanically for system filling, flushing, and maintenance.
- **Safe & Silent Operation:** Utilises a wax-filled capsule expansion principle for controlled opening (3–5 minutes), effectively preventing water hammer within the system.
- **Peace of Mind:** Supported by a comprehensive 5-year warranty from the date of installation and backed by a £5,000,000 manufacturing defect indemnity policy.

Technical Specification

Item	TS-35 230V Ascent Thermal Actuator
Product Code	TACT-0301
Application	Heating, HVAC, Wet Underfloor Heating
Power Supply	230V AC 50/60Hz
Power Consumption	2.5W (Startup: max. 300mA)
Drive / Closing Force	130N
Stroke / Pin Travel Range	3.5mm to 4mm
IP Rating	IP54
Connection Size	M30 × 1.5mm
Certifications	CE, RoHS, WEEE

Associated Products

- **Electrical Compatibility:** The TS-35 is fully compatible with the Whisper Controls 230V KF Range of wiring centres. It is also engineered for seamless integration with standard third-party 230V wiring centres and systems, providing a versatile solution for both retrofit and new-build projects.
- **Mechanical Compatibility:** The TS-35 utilises a standardised M30 × 1.5mm connection, ensuring universal fitment across a wide range of both modern and legacy underfloor heating manifolds commonly found in the UK market. With a minimum 3.5mm and maximum 4mm stroke and a robust 130N driving force, the device provides the necessary travel and pressure to ensure reliable valve engagement and precise flow control across various manifold brands, whether for new-build specifications or retrofit system upgrades.



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DS-WC-TS-35-AUG26-V1.0



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Digital Data Table

Variable	Value
Uniclass 2015 Code	Pr_70_60_02_02 (Actuators)
Asset Type	Electrothermal Actuator
Expected Service Life	Tested to 100,000 cycles. EN 60730 compliance requires 6,000 cycles.
Material Composition	Polycarbonate / ABS
Recyclability	WEEE Standard Compliant

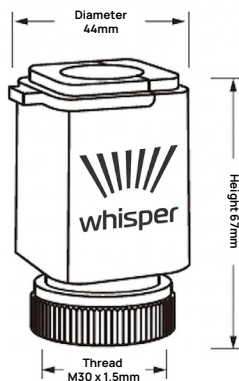
Specification Clauses

The Thermal Actuator shall be a Whisper Controls TS-35 Ascent. 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 £5,000,000 per incident. Alternatives must be submitted 14 days prior to the tender return date, with independent verification of a minimum 130N closing force and the inclusion of a mechanical manual-open bypass clip.

Installation

The TS-35 requires a 230V AC switched live feed from the room thermostat or wiring centre. Wiring consists of a two-core, 1000mm long cable: Brown for Live (L) and Blue for Neutral (N). Ensure the MO clip is lifted before mounting so that the grey collar threads correctly onto the manifold.

Product Dimensions (mm)

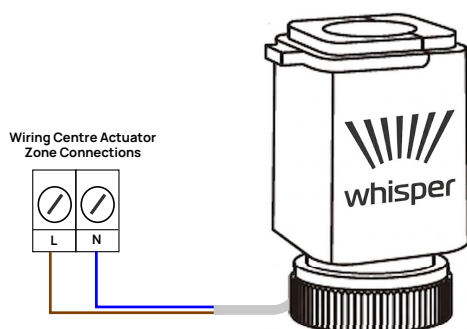


Actuator Housing:

44mm diameter × 67mm height.

Connection: M30 × 1.5mm. Supplied with 1m pre-wired cable.

Wiring Schematic



Installer Note: Connect the Brown wire to the switched live terminal and the Blue wire to the common neutral terminal for the corresponding zone. Refer to the source diagram showing connection to wiring centre.



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Mounting Detail

Follow 4-step mounting process:

1. Lift MO clip.
2. Align internal pin with valve spindle.
3. Hand-tighten grey collar.
4. Push MO clip down to engage spring.

