

Data sheet

Thermostat type AT

Application

The AT thermostat is designed to control the boiler on/off or the flow control valve open/close based on the flow temperature it measured. It senses the temperature in the pipe through its contact surface. And its temperature difference range is 4 – 12 °C.

Please notice that this is a bimetallic based thermostat, its accuracy of temperature switching is influenced by system and room temperature, the tolerance is $\pm 4^{\circ}\text{C}$

The AT pipe thermostat comprises a bimetallic sensor, a contact system and a setting knob. On connection to terminals CO and NC the thermostat breaks on a rise in temperature. On connection to terminals CO and NO the thermostat closes on a rise in temperature.

The AT thermostat can be mounted on the pipe without emptying the plant of water.



Technical Data

Temperature range	30 to 90 °C
Temperature scale	external (code no. 041E0000)
Temperature differential	4 – 12 °C
Max. temperature plant surface	Ts90
Max. ambient temperature	55 °C
Storage temperature	-20 to 90 °C
Switch system	SPDT
Enclosure	IP40
Terminal CO-NC	Breaks on temperature rise
Terminal CO-NO	Closes on temperature rise
Switch load	6 (2.5) A, 250 Vac 0.1 A, 250 Vdc
 marking in accordance with the directives	• EMC • LVD • RoHS
Environment	Normal
Installation	Installed in any position

Accessories

Product	Code no.
Heat-conductive compound ~ 6 g	041E0115
Heat-conductive compound ~ 454 g	041E0116

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Installation

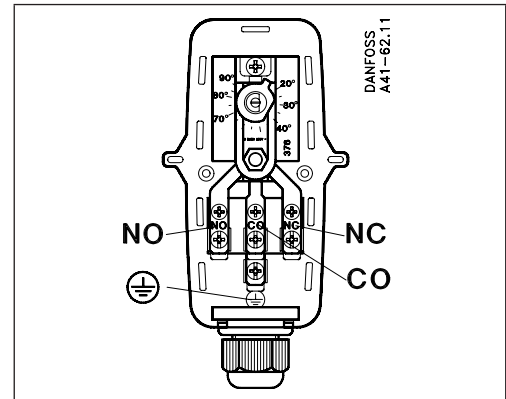
The AT thermostats are mounted directly on a pipe with the steel band provided, suitable for pipe sizes G ½ to 3.

A tube containing heat-conductive compound is supplied with the thermostat. The compound has very good heat conducting properties and should be applied between the thermostat contact surface and the pipe.

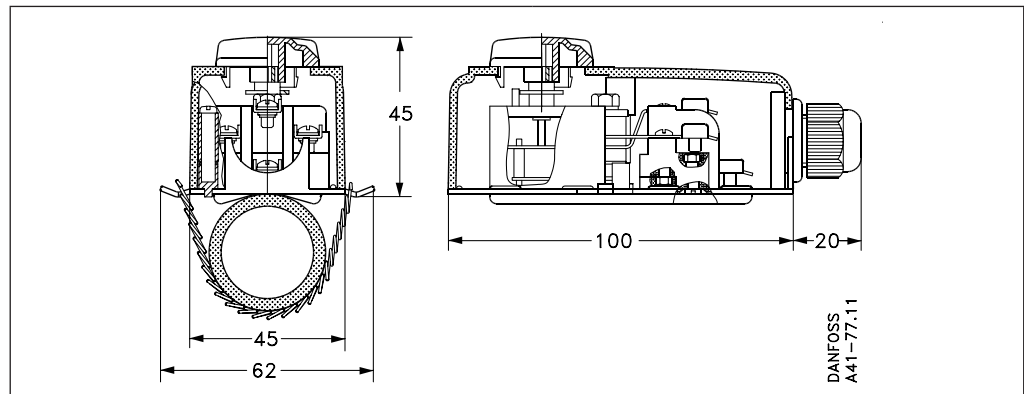
Electrical connections

Internal ground terminal screw in the base, M3.5. Alternatively, plug connection (AMP).

Electrical connection, M3.5 screw terminals or plug (AMP).



Dimensions



Additional documentation on burner components is available on <http://heating.danfoss.com/>

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