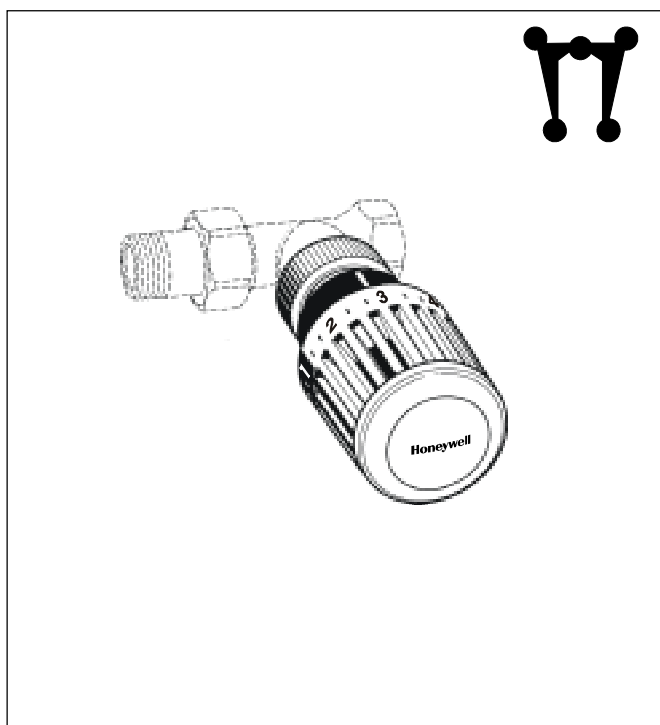


T100 MMIL

HEAVY-DUTY RADIATOR THERMOSTAT FOR PUBLIC BUILDINGS

PRODUCT DATA



Application

Radiator thermostats are installed onto thermostatic valve bodies (TRV bodies). Together with a TRV body, for example the V100 M, they control the room temperature by regulating the flow of hot water into the heat exchanger. The temperature of different rooms is controlled individually and energy is saved.

The combination of radiator thermostat and TRV body is called 'Thermostatic Radiator Valve' or 'TRV'.

TRVs are installed in water-based heating systems at the supply or, less commonly at the return connection of radiators or other heat exchangers. With specially designed (normally closed) valves, radiator thermostats are sometimes also used in water-based cooling systems to control individual heat exchangers.

The T100 MMIL has a theft-resistant design with concealed security-lock and was specially designed for use in public buildings such as offices, schools or hospitals. Once installed it can only be removed using the WT100 MIL tool (see 'Accessories' further below). It conforms to the European Standard EN215.

The T100 MMIL radiator thermostat is suitable for all Honeywell TRV bodies and radiator inserts as well as other TRV bodies and radiator inserts with M30 x 1.5 connection and 11,5 mm closing dimension.

Design

The radiator thermostat is made up of:

- Handwheel with lid and socket
- Internal wax-filled sensor with support cage
- Spindle assembly
- Connection nut with integrated protection against unscrewing

Materials

- Handwheel and lid made of white plastic
- Socket made of black plastic
- Support cage and spindle assembly made of plastic
- Connection nut made of nickel-plated brass

Features

- Tested to the EN215 Part 1 European standard
- Special heavy-duty design for use in public buildings
- Connection nut with integrated protection to prevent unscrewing
- Security lock can only be removed with special tool (WT100 MIL) and is reusable
- Over temperature protection

Specifications

Thermostat connection	M30 x 1.5
Setpoint range	<ul style="list-style-type: none"> • ❄ - 1...5 • ❄ - 1...4 • ❄ - 1...3 • blocked at 3
Temperature range	<ul style="list-style-type: none"> • 7...24°C (45...75°F) • 7...22°C (45...72°F) • 7...20°C (45...68°F) • blocked at 20°C (68°F)
Closing dimension	11,5 mm

Dimensions

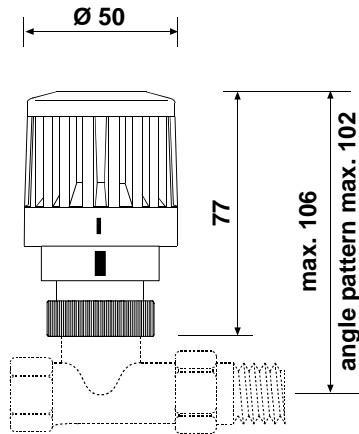


Fig. 1. Dimensions

Function

Thermostatic radiator valves enable individual control of room temperatures and thus save energy.

The radiator thermostat controls the TRV body. Air from the room passing over the sensor of the radiator thermostat causes the sensor to expand when the temperature rises. The sensor acts onto the valve spindle and this causes the TRV body to close. When the temperature falls the sensor contracts and the spring-loaded valve spindle is opened. The TRV opens in proportion to the temperature of the sensor. Only the amount of water required to maintain the room temperature set on the radiator thermostat can flow into the radiator.

EN215 Information

Table 1. Comparison of T100 MMIL specs and EN215/TL4520* requirements

	T100 MMIL	EN215 requirements	TL4520 requirements
Hysteresis	0,6K	≤ 1,0K	≤ 1,0K
Influence of differential pressure	0,5K	≤ 1,0K	≤ 1,0K
Influence of heating medium	0,9K	≤ 1,5K	≤ 1,5K
Response time	20 min	≤ 40 min	≤ 40 min
Bending durability	950 N	250 N	750 N
Turning durability	18 Nm	8 Nm	14 Nm
Impact durability	13 Nm	—	10 Nm

NOTE: *TL4520-0014 Group 1 (Federal German Ministry technical requirements for defence procurement).

Ordering Information

Type	Temperature range °C (°F)							OS-No.
	closed	7 (45)	16 (61)	18 (64)	20 (68)	22 (72)	24 (75)	
T100MMIL					I			T100MMIL-101
		*	1	2	3			T100MMIL-231
		*	1	2	3	4		T100MMIL-241
		*	1	2	3	4	5	T100MMIL-251

NOTE: Fixed settings other than 20°C (68°F) can be supplied on request. Please indicate required setting when ordering

Accessories

WT100 MIL



Special tool for removing T100 MMIL thermostats

Honeywell

Home and Building Control

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