



OPERATING MANUAL

MK 54 – 2011.12.01.

2/2-P-RE/RE

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IMMERSION THERMOSTAT

FIELDS OF APPLICATION

Immersion thermostats are auxiliary control instruments designed to improve the comfort and efficiency of heating-systems, hot-water cleaners and industrial temperature-control appliances.

WARRANTY-CONDITIONS

The Manufacturer warrants the faultless operation of the appliance, provided it is professionally shipped in original packaging, and stored, installed and used according to prescriptions, for a period of

1 YEAR

from the date of purchase, however, for a period no longer than

36 MONTHS

from the date of manufacture.

All repairs and replacements performed within the scope of warranty shall be carried out according to delivery-terms, rules and regulations valid in Hungary at the time that such repairs or replacements are carried out.

Product-conformity: **CE**, MEEI

All repairs, within or outside the warranty, shall be carried out by:

SIA AMATI

(EZERA IELA 30, BALVI, LATVIA) Please

return faulty appliances to the above address.

Date of purchase:

Stamp and signature of re-seller:

SPECIFICATIONS

1 Temperature range	0 - 350 °C
Tolerance	±6 - ±4K
Differential	4 ± 2 - 10 ± 2K
2 Temperature range	0 - 350 °C
Tolerance	±6 - ±4K
Differential	4 ± 2 - 10 ± 2K
Contact rating (1 and 2)	16(4)A 230V~ 6(1)A 400V~
Insulation class	I(grounded) DIN 57100
Protection	IP 43
Ambient temperature	T85
Heat-resistance of connecting-cabl	T140
Relative humidity of air	30.....80%
Switching-cycle (1 and 2)	50.000 (5 switching/min)
Climate-version	temperate, indoor
Installation-position	horizontally (cover sideways) vertically (cover on top)
Conductive connectors	screw terminal
Protective conductive connection	M3 nut/screw terminal

Attention!  (Sign depicted on the thermostat!

For information please refer to the Operating Manual!)

MAINTENANCE:

In case of correct installation, immersion thermostats require no further maintenance.

PACKING

Individually packed in cardboard boxes.

STORAGE: in a dry room with adequate fresh air, with

relative humidity

30 80%

ambient temperature

+5 ... +55°C

TRANSPORTATION temperature

-15...+55°C

OPERATING PRINCIPLE

Immersion thermostats operate on the principle of liquid-expansion. Increase in temperature will result in the increase of internal pressure in the system consisting of the sensor, the capillary tube and the membrane. The pressure will trigger the operation of an electric switch located inside the controller/limiter units.

INSTALLATION AND CONNECTION

The immersion thermostat should be mounted onto the protruding tube-end of the pocket which must be first fastened onto the base-plate. For mounting, use the screw PZ ST2,9x13 mm located on the base-plate. Before connecting the electric elements, first remove the cover (for limiter-versions: first unwind the closing-lid) and thread the gland packing (PG-11) onto a 2,5 mm flexible conducting-cable with adequate heat-resistance. Prepare the cable-endings (strip the wire on a length of 7 mm; fix a cable-bushing onto the flexible cable- ending). Fasten the cable-endings into the screw terminal (for some types, the protective grounding should be fastened into the M3 threaded connector of the controller). Make sure the cable and gland packing are positioned correctly and position the cover back in its place, making sure the flattened part of the control-knob is kept in the correct position. Fasten the cover by way of the screws St2,9x13 mm PZ. Control the cable-path, fasten the screw of the gland packing.

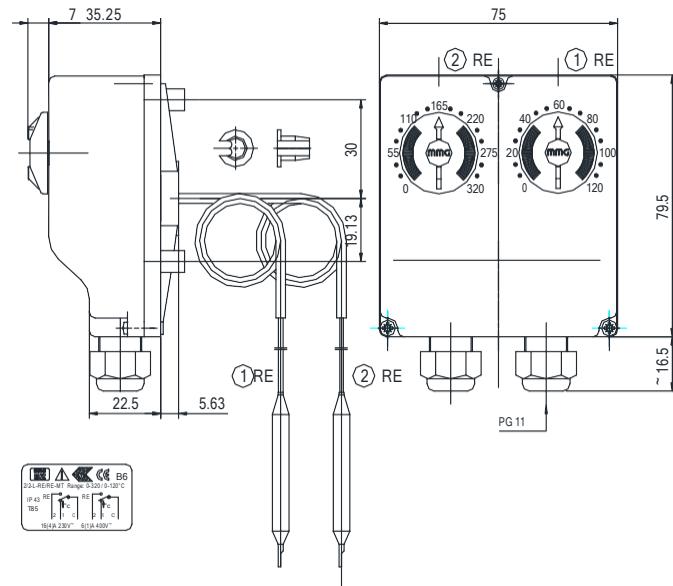
The appliance can be mounted either horizontally (cover sideways) or vertically (cover on top).

The appliance must be located so that there is ample of heat-transfer with the agent that is to be controlled (pre-stress element with spring / heat-transferring grease within the pocket).

The desired temperature can be set by way of the regulator-knob **RE**. If necessary, fine-adjustments can be made during operation of the heating system.

For controller type **RI**, the shaft located beneath the cover should be set by a screwdriver until the desired temperature is reached.

The appliance should be mounted and installed by qualified service-personnel specialized for heating systems, and the relevant electric standards and regulations must be observed at all times.



Please retain these instructions for future reference.

Thank you for purchasing this AMATI product.