

INTRODUCTION

The Ratek PID controller uses a custom program securely contained as firmware in a single microprocessor.

User interface is via front panel mounted key switches and LED display.

Program settings are maintained by a non-volatile RAM. System performance is monitored by a “watch dog” that resets the system if power is interrupted.

This thermoregulator is designed to provide temperature controlled water within a tank or reservoir, using clean tap water.

Additives other than glycol based products for extreme temperature applications should not be used.

Use with volatile oils or solvents can create dangerous vapours and should be avoided.

Regular cleaning of the reservoir tank and immersed components of the thermoregulator is recommended to ensure the best long term performance and reliability.

Use of a mild detergent and a fresh water rinse is sufficient.

Chemical cleaners can introduce corrosive agents and should be avoided.

Where the unit is used for prolonged periods in the same tank, daily replacement of the water will prevent the build up of scale and corrosive sediment.

SPECIFICATIONS

Power requirements: 240 VAC/ 1020 Watts - standard
240 VAC/ 2020 Watts - optional

Temperature control Range: Two factory preset ranges available:-
-20° to 100 °C or 0° to 99.9 °C.*

Control stability: 0° to 99.9° range:- 0.02 °C
-20° to 100° range:- 0.2 °C

Display resolution: 0° to 99.9° range:- 0.1 °C
-20° to 100° range:-1 °C

Pump capacity: 10.5 Lt per min at zero head

Safety features: Low level cut out.
Adjustable over temperature alarm.
An intermittent audible signal indicates alarm condition.

Alarm setting: 0° to 99.9° range:- up to 9.9° over temperature.
-20° to 100° range:- up to 99° over temperature.

*For control below ambient temperature it is necessary to use an auxiliary cooling unit.

PRODUCT WARRANTY

Ratek equipment is covered by a 12 month parts and labour warranty effective from the date of purchase.

This warranty covers the repair or replacement of any parts or components found to be defective, subject to the service options listed below.

This warranty excludes any defect resulting from misuse, neglect, accidental damage, improper voltage, or any alteration which affects the performance of the equipment.

- Does not extend to any costs associated with the delivery, damage, or loss incurred during transport.
- Is in addition to any Statutory regulations and provisions implied by the Trade Practices Act and any relevant State or Federal Government obligations.

For warranty service the following options are available:

- Contact the supplier from where the equipment was purchased to arrange for service.
- Return the equipment direct to Ratek Instruments, 60 Wadhurst Drive, Boronia, Vic 3155.

Warranty repairs not returned to Ratek can be undertaken by authorised service personnel but are limited to a parts only warranty.

Note: Proof of purchase is required for all warranty repairs.



OPERATING INSTRUCTIONS

FOR

TH5/TH52K THERMOREGULATOR



FOR ADDITIONAL INFORMATION / TECHNICAL SUPPORT

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