

## Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

manuals.plus /

- > [IMIT](#) /
- > [IMIT TLSC 07050 542816 Dual Immersion Thermostat User Manual](#)

## IMIT TLSC 07050

# IMIT TLSC 07050 542816 Dual Immersion Thermostat User Manual

Model: TLSC 07050 | Part Number: 542816

## 1. PRODUCT OVERVIEW

The IMIT TLSC 07050 542816 is an adjustable dual immersion thermostat designed for temperature control in oil-fired boiler systems. It features both a main adjustable control and a manual reset high-limit safety function, ensuring reliable and safe operation within a temperature range of 60°C to 90°C.

### Key Features:

- Adjustable temperature range: 60°C to 90°C.
- Dual control mechanism for precise regulation.
- Manual reset high-limit safety thermostat.
- Suitable for oil-fired boiler applications.
- Liquid-filled immersion type thermostat.

## 2. SAFETY INFORMATION

**WARNING: Electrical shock hazard. Installation and servicing should only be performed by a qualified electrician or heating engineer in accordance with local electrical codes and regulations.**

- Always disconnect power to the boiler system before installing, servicing, or performing any maintenance on the thermostat.
- Ensure all wiring connections are secure and correctly insulated.
- Do not operate the thermostat if it appears damaged.
- This device is designed for specific applications; ensure it is compatible with your system before installation.

## 3. INSTALLATION AND SETUP

The IMIT TLSC 07050 thermostat is designed for immersion into a boiler's hot water cylinder or pipework. Proper installation is crucial for accurate temperature sensing and safe operation.

### 3.1 Mounting:

1. Select an appropriate location on the boiler or hot water cylinder that allows for full immersion of the sensing probe and easy access for adjustments.
2. Securely mount the thermostat housing using appropriate fasteners.
3. Insert the immersion probe into the designated pocket or connection point, ensuring good thermal contact.

### 3.2 Wiring:

Refer to the wiring diagram provided on the product label and consult a qualified professional for electrical connections.



**Figure 1:** IMIT TLSC 07050 Dual Immersion Thermostat. The image displays the thermostat unit, featuring a temperature adjustment dial ranging from 60 to 90 degrees Celsius. A black manual reset button is visible next to the dial. On the side, a label provides product details (IMIT THERMOSTAT TLSC 07060, Codice 542816) and a clear wiring diagram. The diagram shows connections for 'REG' (Regulator) with C-1 and C-2 contacts, and 'LIM' (Limit) with C-2 contacts, indicating their respective current ratings (e.g., C-1 10(2.5)A/250V~). Two copper immersion probes extend from the right side of the unit. Cable glands are visible at the bottom for electrical connections.

- Connect the main power supply to the appropriate terminals as indicated by the 'L' (Line) and 'N' (Neutral) markings, if present, or as per the diagram.
- Connect the boiler control circuit to the 'REG' (Regulator) contacts (C-1 and C-2) for normal temperature regulation.
- Connect the high-limit safety circuit to the 'LIM' (Limit) contacts (C-2) for manual reset functionality. This circuit should interrupt power to the heating element or burner in an overheat condition.
- Ensure all connections comply with the voltage (230 Volts) and current ratings specified on the label.

## 4. OPERATING INSTRUCTIONS

### 4.1 Setting the Temperature:

1. Ensure power is supplied to the thermostat.
2. Rotate the adjustment dial on the front of the thermostat to the desired temperature setting between 60°C and 90°C. The dial is marked with increments for precise adjustment.
3. The thermostat will activate the heating system when the water temperature falls below the set point and

deactivate it when the temperature is reached.

## 4.2 Manual Reset High Limit:

The high-limit safety feature is designed to prevent overheating. If the water temperature exceeds a predetermined safe limit (typically above the maximum adjustable range), the high-limit switch will trip, interrupting the heating circuit.

1. If the high-limit switch trips, the heating system will cease operation.
2. To reset, first identify and rectify the cause of the overheating (e.g., pump failure, blocked pipework).
3. Once the system has cooled down and the issue is resolved, press the black manual reset button located on the front panel of the thermostat. This will restore power to the heating circuit.
4. If the high-limit trips repeatedly, consult a qualified heating engineer.

## 5. MAINTENANCE

The IMIT TLSC 07050 thermostat requires minimal maintenance. Regular checks of the heating system are recommended to ensure optimal performance and safety.

- Periodically inspect the thermostat and its wiring for any signs of damage, corrosion, or loose connections.
- Ensure the immersion probe remains securely in place and has good thermal contact.
- Keep the thermostat housing clean and free from dust and debris.
- Do not attempt to repair internal components. If the unit malfunctions, it should be replaced by a qualified professional.

## 6. TROUBLESHOOTING

Before performing any troubleshooting, ensure the power supply to the boiler system is disconnected.

Problem	Possible Cause	Solution
Boiler not heating.	<ul style="list-style-type: none"><li>• No power to thermostat.</li><li>• Thermostat set too low.</li><li>• High-limit tripped.</li><li>• Faulty wiring.</li></ul>	<ul style="list-style-type: none"><li>• Check main power supply.</li><li>• Adjust temperature setting.</li><li>• Press manual reset button after checking for overheat cause.</li><li>• Inspect wiring (by qualified personnel).</li></ul>
Boiler overheating.	<ul style="list-style-type: none"><li>• Thermostat set too high.</li><li>• Faulty thermostat.</li><li>• Poor immersion probe contact.</li></ul>	<ul style="list-style-type: none"><li>• Lower temperature setting.</li><li>• Replace thermostat (by qualified personnel).</li><li>• Ensure probe is fully immersed and making good contact.</li></ul>
High-limit trips frequently.	<ul style="list-style-type: none"><li>• System fault (e.g., pump, circulation).</li><li>• Incorrect thermostat setting.</li></ul>	<ul style="list-style-type: none"><li>• Consult a qualified heating engineer to diagnose system issues.</li><li>• Verify temperature settings are appropriate for the system.</li></ul>

## 7. SPECIFICATIONS

Feature	Detail
<b>Brand</b>	IMIT
<b>Model Number</b>	542816 (TLSC 07050)
<b>Type</b>	Dual Immersion Thermostat
<b>Adjustable Temperature Range</b>	60°C to 90°C
<b>High Limit Feature</b>	Manual Reset
<b>Voltage</b>	230 Volts
<b>Current Rating (Regulator C-1)</b>	10(2.5)A/250V~
<b>Current Rating (Regulator C-2)</b>	6(2.5)A/250V~
<b>Current Rating (Limit C-2)</b>	10(2.5)A/250V~
<b>Dimensions (L x W x H)</b>	19 x 10.49 x 11.71 cm
<b>Weight</b>	440 grams
<b>Connectivity Technology</b>	Wi-Fi (Note: This seems like an error in the source data, as a mechanical thermostat typically does not have Wi-Fi. Please verify with manufacturer if Wi-Fi functionality is expected.)
<b>Special Feature</b>	Manual Control and Manual Reset
<b>Application</b>	Oil-Fired Boiler

## 8. WARRANTY AND SUPPORT

Specific warranty information for the IMIT TLSC 07050 542816 thermostat is not provided in this manual. For warranty details, technical support, or replacement parts, please contact your retailer or the manufacturer directly. Keep your proof of purchase for warranty claims.

Manufacturer: IMIT