

User Maintenance Manual

ULTRA-LOW DRY BLOCK CALIBRATOR MODEL 526

Standard Warranty Terms

©Isothermal Technology Limited (Isotech)

All equipment supplied by Isotech shall be brand-new and compliant with all performance specifications detailed in Isotech's technical documentation. Isotech warrants that the supplied equipment, components, tools, and spare parts will be free from defects in workmanship, materials, and design for a period of 12 months from the date of delivery.

Fragile ceramic and/or glass parts are excluded from this warranty. The warranty may become void if the equipment is interfered with or not properly maintained.

In the event of suspected equipment failure within the warranty period, customers must promptly contact Isotech or an authorised representative to determine if repairs can be undertaken on-site by an appointed engineer.

Customers must provide the serial number of the equipment when requesting warranty support. Equipment should not be returned without prior authorisation from Isotech.

All returns must comply with Isotech's Return Material Authorisation (RMA) procedures. Products returned under RMA terms must be shipped carriage paid. Following inspection by Isotech, the equipment will either be repaired or replaced at Isotech's discretion.

The standard warranty excludes all inbound/outbound packaging, return shipping, and customs clearance costs. The warranty will become void if the product has experienced abnormal electrical or mechanical abuse, accidents, negligence, or improper handling or operation.

Issuance of an RMA does not confirm warranty eligibility. Warranty coverage will be determined only after thorough examination by Isotech. Upon receipt, the equipment will be inspected to diagnose the fault, after which a repair cost estimate will be provided. Approval of the estimated charges is required prior to any repair work.

Should the customer decline repairs, an inspection/investigation fee and return shipping charges will apply. If the inspection confirms a valid warranty claim, no repair charges will be applied.

These warranty terms are governed by and construed in accordance with the laws of England and Wales.



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1 Introduction

1.1 Overview

The Isotech Model 526 is an ultra-low dry block calibrator designed for the calibration and checking of temperature sensors over a wide temperature range. It is intended for laboratory and industrial use where a stable, portable temperature source is required for sensor comparison, checking, and general calibration work.

The unit combines a compact format with touchscreen control, fast cooling performance, and a stabilised calibration zone. It is suitable for use in applications such as electrical power, automotive, materials processing, and other industrial environments where accurate low-temperature calibration is needed.

1.2 Key Features

- Precision ultra-low dry block calibrator
- Wide operating range from -115 °C to +50 °C
- Touchscreen user interface
- Rapid cooling and heating performance
- Stabilisation typically within 15 minutes
- Portable design, approximately 12 kg, 16kg with case.
- Insert diameter 30 mm, with custom inserts available
- Temperature display in °C or °F
- Serial communication

1.3 Intended Applications

The Model 526 is intended for the calibration and performance checking of temperature probes and thermal sensors. It may be used for comparison calibration against a reference probe, for checking field sensors, or for providing a stable reference temperature in laboratory and industrial environments.

The instrument is for test and calibration use only.

1.4 Compliance and Safety

The unit is designed to meet relevant safety and operational requirements for laboratory and industrial use. Users must follow the installation, operating, and safety instructions provided in this handbook to ensure safe operation and reliable performance.

1.5 About This Handbook

This handbook provides guidance on safe installation, operation, routine care, and basic troubleshooting for the Isotech Model 526. It is intended to help users achieve reliable performance while maintaining safe working practice. Users should read this handbook before using the instrument and retain it for future reference.



2 Symbols

	ISO3864 – Caution, read the entire manual before use
	Warning: Low Temperature
	IEC 417 – Caution, hot surface (risk of burn)
O	Off
I	On
	Waste Electrical and Electronic Equipment (WEEE directive) symbol
CE	Complies with European regulations (CE mark)
UK CA	Complies with United Kingdom regulations (UKCA mark)
	USB symbol
	Risk of Electrical Shock
I O I O I	Serial Port
	Wear Protective Gloves
	Wear a Face Shield
	Wear Protective Clothing
	Refer to Instruction Manual (ISO 7010)

3 Safety Information

The Model 526 is a precision electrical calibration instrument designed to generate controlled temperatures for the calibration of probes and sensors. Incorrect installation, unsafe handling, or misuse may result in electric shock, burn injury, damage to the instrument, or inaccurate calibration results.

The instrument must only be used by trained and competent personnel familiar with calibration practice, electrical safety, and the handling of hot and cold temperature sources.

3.1 Operator Competency and Training

Use the Model 526 only where operators understand the safe handling of calibration probes, the risks associated with hot and cold surfaces, and the importance of correct insertion depth and thermal stabilisation.

- Calibration equipment should only be used by trained personnel.

3.2 Electrical Safety

The unit must be connected to a correctly earthed mains supply with the correct voltage rating. Only use power cables that are suitably rated and comply with local electrical safety standards.

Do not operate the unit if it is not properly grounded or if the power cable or plug is damaged. Incorrect electrical installation may result in electric shock, fire hazard, or damage to the equipment. If in doubt, contact Isothermal Technology Ltd or a qualified electrician.

- Connect the instrument only to a correctly grounded AC supply of the specified voltage.
- Do not connect the instrument to a non-grounded or non-polarised outlet.
- Use only the correct supply voltage for the ordered version of the instrument.
- Do not connect a 110 V unit to a supply above 110 V.
- Disconnect the power cord before any internal work or inspection.
- Do not operate the unit if the mains cable, plug, or supply arrangement appears damaged or unsuitable.
- Where appropriate, use a ground fault interrupt device.

3.3 Thermal and Handling Hazards

The insert and well may become extremely cold or warm during operation. Use suitable care when inserting or removing probes. Allow sufficient time for the instrument, insert, and probes to return towards ambient temperature before handling, transport, or storage.

The handle is intended only to support the weight of the instrument itself. Do not lift the unit with any additional load attached.

3.4 Safe Operating Environment

- Operate the instrument only within the environmental conditions stated in this handbook.
- Use the instrument in a clean, dry area with adequate airflow.
- Leave at least 150 mm of clearance around the unit for ventilation and safe probe handling.
- Do not operate near flammable materials.
- Do not block air inlets or outlets.
- Do not allow dust or loose particles to be drawn into the instrument.

3.5 Important Restrictions

- Do not use the instrument for any purpose other than calibration work.
- Do not use fluids to clean the well.
- Do not modify internal parameters unless specifically authorised.
- Do not connect standard USB devices to the USB service port.
- Do not use sharp objects on the touchscreen.
- Do not attempt to dismantle the unit.

3.6 Inspection Before Use

- Check that the enclosure is undamaged.
- Check that the touchscreen is intact.
- Ensure the insert and well are clean.
- Inspect the mains lead and supply arrangement.
- Confirm that the supply voltage is correct.
- Ensure the air openings are unobstructed.
- Confirm the instrument has been transported and stored upright.

3.7 Emergency Guidance

If an electrical fault, smoke, unusual smell, or unstable mains condition occurs, switch off the instrument immediately and disconnect it from the power supply. Do not re-energise the unit until the condition has been assessed by qualified personnel or an authorised service provider.

4 Getting Started

4.1 Unpacking and Inspection

Upon receiving your Isotech Model 526, please carry out the following steps:

- Carefully unpack the equipment and inspect all components for damage that may have occurred during transit.
- Our Packing Department uses protective packaging designed to safeguard the unit during transport. However, damage can still occur during shipping.
- After unpacking:
 - Visually inspect the instrument and any supplied accessories for signs of damage, impact, or loose components.
 - Confirm that all listed items are present using the packing checklist included with your shipment.
- If you find:
 - Shipping damage, or
 - Missing components
- Immediately notify:
 - Isothermal Technology Ltd (Isotech) or your authorised distributor, and
 - The delivery carrier responsible for transport.

Important: If damage is identified, retain all original packaging. This may be required for inspection by the carrier or for insurance purposes.

Do not dispose of packing materials until the unit has been fully inspected and accepted.

Note: The Model 526 is a precision instrument. Handle the unit with care and avoid dropping, impacting, or subjecting it to mechanical stress.

4.2 Standard Items Supplied

- Dry block calibrator
- Traceable Certificate
- Power cable
- Insert
- Insert removal tool
- Carrying case
- User manual

4.3 Electrical Connection

Check the rating information for the instrument before connection. Connect the supplied power lead to the instrument and then to a suitable mains supply. The instrument must be connected to a grounded outlet.

4.4 Site Requirements

- Place the instrument upright on a flat, stable surface.
- Provide adequate air circulation around the unit.
- For best performance, use the instrument in a stable room environment and away from draughts.
- Ensure sufficient overhead space for safe insertion and removal of probes.
- Keep the unit away from wet, oily, dusty, or dirty areas.

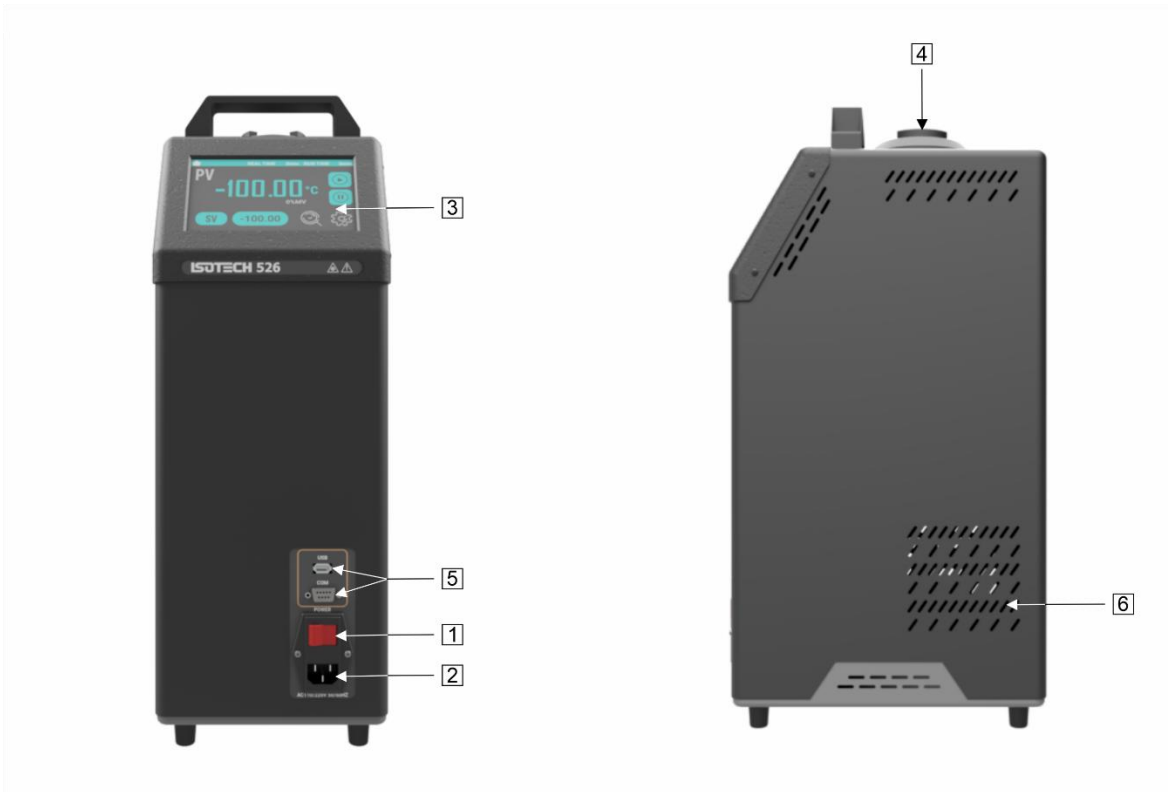
4.5 Initial Setup

- Position the unit in its intended location.
- Check that the correct insert is fitted.
- Confirm that the well and insert are clean.
- Connect the power supply.
- Switch the instrument on using the mains power switch.
- Allow the display to initialise and the unit to reach a stable operating condition before beginning calibration.

4.6 Read Before Use

- Read the safety information.
- Confirm correct supply voltage.
- Allow the unit to stand for 24 hours after transport if required.
- Ensure the instrument is upright.
- Ensure ventilation openings are clear.
- Use the instrument only for calibration work.

5 Device Overview



The Model 526 is an ultra-low dry block calibrator with a touchscreen interface, removable insert, mains power input, cooling and ventilation system, and serial communication capability on supported versions.

Main features and external elements include:

- **1: Power switch**
The power switch uses standard I/O marking. O indicates off and I indicates on. The switch illuminates when powered.
- **2: Power input**
The instrument is available in different voltage versions. Always confirm the rating before connection.
- **3: Touchscreen interface**
The Model 526 has no physical operating buttons for normal control. All user operation is through the LCD touchscreen. The screen should be used gently and must not be pressed with sharp or hard objects.
- **4: Insert and well**
The insert provides the calibration holes for temperature probes. Best performance is obtained when probes are inserted fully to the bottom of the well.
- **5: Communication ports**
The instrument provides serial RS232 communication for use with I-Cal Easy. The USB connection is for service, software upgrade, or debugging only and is not a general-purpose user interface. USB devices should not be connected for normal operation.
- **6: Ventilation openings**
Air inlet and outlet openings must be kept clear at all times to avoid overheating or poor thermal performance.

6 Operation Guide

6.1 Introduction

The Model 526 is designed to provide a stable temperature environment for the calibration or checking of thermometers and probes. Safe and accurate operation depends on proper installation, correct probe fit, good thermal contact, and adequate stabilisation time.

6.2 Preparation

Ensure the unit is upright, clean, correctly powered, and allowed to stabilise after transport. Check that the insert suits the probe dimensions. Ensure the well is clean and free from foreign matter.

6.3 Power-Up

Switch on the instrument using the mains switch. The touchscreen will light up, press Enter and the current temperature will be displayed. Do not begin measurement work until the unit is running normally and the display is active.

6.4 Setting the Temperature

Use the touchscreen to enter or select the desired set temperature. The current set temperature is shown on the display and represented on the temperature curve. The unit automatically adjusts output power. Output power is not manually adjustable in normal use.

6.5 Home Page

The home page is the main operating screen displayed after power-up.

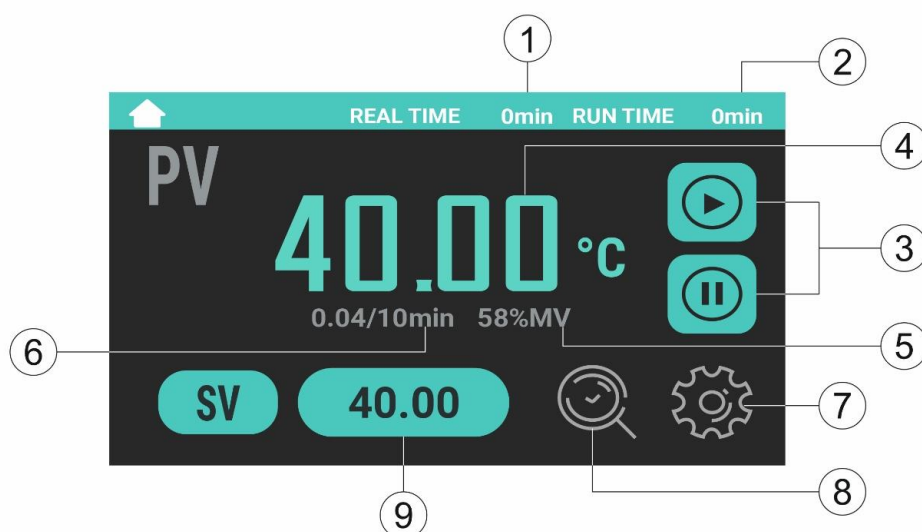


Figure 1 – Home Page

1. **Total Running time:** The total running time since power up. Resets to zero after power cycle.
2. **Current set temperature running time:** The running time since the setpoint was last adjusted. Resets to zero after setpoint change or power cycle
3. **Start / Pause buttons:** Press to start the calibrator and drive the block to the set temperature. Option to Pause all heating and cooling.
4. **Current block temperature:** Indicates the current temperature/insert in °C.
5. **Output heating power:** Current heater output shown as a percentage (%MV).
6. **Block stability:** Temperature stability over the last 10 minutes in °C.
7. **Offset correction pages:** Press to open the temperature offset corrections page. For advanced users only.
8. **Graphical display:** Press to open the graphical display page.
9. **Set temperature button:** Press to open the virtual keyboard and change the setpoint 6.5.2

6.6 Setting the Temperature - Virtual Keypad

Press button (9) on the home page to open the virtual keypad.

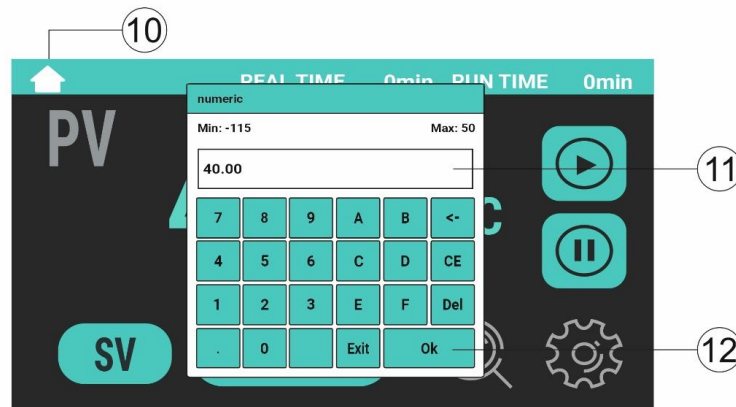


Figure 2 – Virtual Keypad

10.Home button: Press to return to the home page without saving.

11.Desired Temperature Input: The controller continues to run while the keypad is open.

12.Virtual keypad: Use the numeric keys to enter the desired temperature value.

- **Ok** Press to confirm and apply the new setpoint.
- **Exit** Press to cancel and return to the previous page without changing the setpoint.

The allowed range is shown at the top of the keypad (Min / Max). Values outside this range will not be accepted.

6.7 Graphical Display Page

Press the graphical display button (8) on the home page to open the live temperature graph.

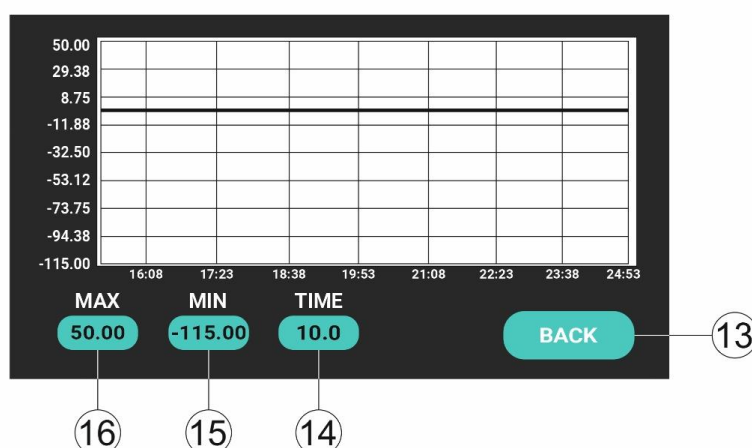


Figure 3 – Graphical Display Page

13.Back button: Press to return to the home page.

14.TIME: Select the duration shown on the horizontal axis.

15.MIN: Read-only lower bound of the temperature axis.

16.MAX: Read-only upper bound of the temperature axis.

Use the graphical page to monitor the approach to setpoint and confirm temperature stability before taking measurements.

6.8 Stabilisation

After changing setpoint, allow the instrument to settle before relying on the indicated temperature. The actual time will depend on setpoint, ambient conditions, and the probes inserted.

6.9 Inserting Probes

Insert the probe fully into the well for best accuracy. Ensure the probe makes good contact with the bottom of the well. After insertion, allow approximately 10 minutes, or longer if required, for the probe and block to stabilise before measurement.

6.10 Comparison Calibration

For best accuracy, a probe may be calibrated against a reference probe using a comparison method.

- Place the reference probe in one well.
- Place the unit under test in another well.
- Allow both to stabilise and record the readings.
- Swap the probe positions.
- Allow the probes to settle again and record the readings again.
- Average the readings from each probe position.
- Compare the averaged value of the unit under test against the averaged value of the reference probe.

This method helps reduce errors caused by well-to-well gradients. Best results are obtained when both probes are of similar size, length, and construction, and inserted to the same depth.

6.11 Multiple Probe Use

Multiple probes may be calibrated at the same time, but fully loading the insert increases the time required for the block to stabilise. Always allow sufficient settling time before taking measurements.

6.12 Dry Block Behaviour

A vertical temperature gradient exists in any dry block calibrator. The Model 526 is designed to minimise this, but actual heat loss and gradient will vary with probe type, insertion depth, and loading conditions. Insert probes to full depth wherever possible for best results.

6.13 After Use

- Allow the calibrator to return towards room temperature.
- Switch off the power.
- Leave the unit on a flat surface.
- Avoid contact with hot or cold objects until the instrument has recovered to a safe handling condition.

7 Advanced Features

The interface includes internal parameter pages for Temperature Offset Corrections, PID and related settings. These parameters are factory set and are not intended for routine user adjustment. Unauthorised changes may lead to poor stability, temperature deviation, or permanent damage.

7.1 Temperature Offset Corrections Page

Press the gear icon (7) on the home page to open the corrections table.



Figure 4 – Temperature Offset Corrections Page

17. PID setting page: Press and hold for 5 seconds to open the PID settings page.

18. Temperature Correction Point: (Left-hand column) The temperature at which the offset will be applied.

19. Correction Values: (Right-hand column) The °C offset applied to the reading at each correction point. Tap a value to edit it.

20. Back button: Press to return to the previous page.

21. Time/Date button: Press to open the date and time setting page.

Use this page for all user temperature adjustments.

2.1 7.2 Date and Time

Access the date and time page via the Time/Date button (21) on the offset corrections page.

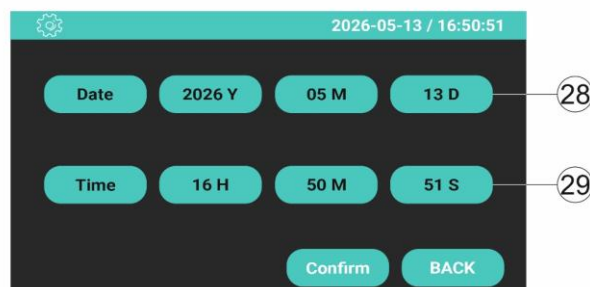


Figure 6 – Date and Time Page

28. Date selection: Tap Year (Y), Month (M), or Day (D) and use the keypad to set the date.

29. Time selection: Tap Hour (H), Minute (M), or Second (S) and use the keypad to set the time.

Press Confirm to save changes, or Back to cancel.

7.3 PID Settings Page

Press and hold the gear icon (7) on the home page for 5 seconds to open the PID settings page. This page is for experienced users only.

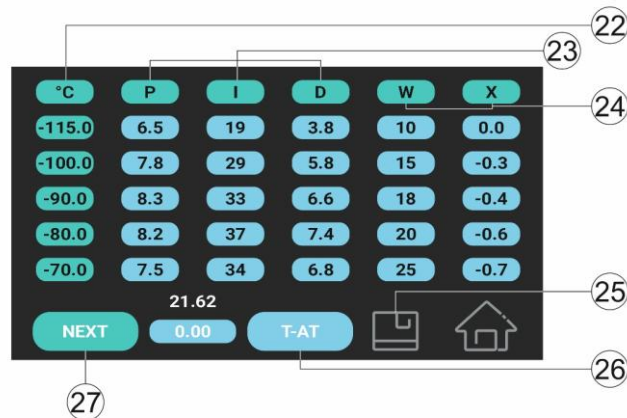


Figure 5 – PID Settings Page

22. Temperature column (°C): The temperature range to which each row of settings applies.

23. PID values (P, I, D): Proportional band, Integral time, and Derivative time. Adjust only with a thorough understanding of PID control.

24. Factory settings:

- W = Power settings, carefully balanced power settings adjusted to temperature to give the best stability at a given temperature. **Please do not adjust, risk of damage.**
- X = Factory calculated temperature correction. **Please do not adjust.** For temperature corrections please use the temperature offsets page

25. Save button: Press after any PID adjustment or autotuning to store values.

26. T-AT Autotune button: If the temperature becomes unstable, use this feature to adjust the PID settings automatically.

27. Next range: Press to move to the next temperature range for adjustment.

7.4 Serial Communication Functions

The serial communication functions are intended for use with I-Cal EASY software.

Communication Protocol Port

Pin 2: RS232 RXD

Pin 3: RS232 TXD

Pin 5: GND

Serial port parameter settings. Rate: 38400, Data bits: 8, Stop bits: 1, Parity bit: NONE

Addresses

Function	Data address (hexadecimal)
On/off	0001
Set temperature	000A
Current temperature	000C

8 Troubleshooting

The table below summarises common issues, likely causes, and the actions the user should take before requesting service support.

Issue	Possible causes	Recommended Action
No power	No mains supply, incorrect supply voltage, blown fuse, damaged power lead, unstable mains connection	Check the wall supply, confirm the instrument voltage matches the supply, inspect the power lead, check the relevant fuse rating, and wait for mains stability if there has been a power fluctuation. Fuse Type: 6.3AT for 115V and 3.15AT for 230V
Poor stability or temperature fluctuation	Insufficient stabilisation time, incomplete probe insertion, excessive loading, draughts, unstable room conditions, or unauthorised parameter changes	Allow more time to stabilise, insert probes fully, reduce disturbance to the block, improve ambient conditions, and do not alter internal PID or factory settings without approval.
Incorrect probe reading	Poor contact at the bottom of the well, probe not inserted to full depth, well gradients, or probe mismatch during comparison work	Reinsert the probe fully, improve contact with the bottom of the well, allow further settling time, and use matched probes while swapping positions during comparison calibration.
Touchscreen problems	Screen damage, excessive force, incorrect operation with sharp objects, or transport damage	Inspect the screen for visible damage, operate only with light finger pressure, and do not use the instrument if the screen is damaged.

8.2 When to Seek Service

- The unit does not power correctly after basic checks.
- The screen is damaged.
- The instrument behaves abnormally after stabilisation.
- Ventilation problems are observed.
- Electrical damage or internal fault is suspected.

9 Maintenance and Care

9.1 Routine Maintenance

The Model 526 is designed for low routine maintenance. With proper handling and use in a clean environment, only basic external care should be required.

9.2 Cleaning

- Wipe the outer surfaces with a damp cloth and mild detergent if necessary.
- Do not use harsh chemicals on painted or external surfaces.
- Do not use liquids to clean the well.
- Keep the well and insert clear of dust, debris, and foreign matter.

9.3 General Handling

- Handle the instrument with care.
- Do not knock, drop, or shock the unit.
- Do not slam probe stems into the well.
- Store and transport the instrument upright where possible.
- Protect the touchscreen from impact and pressure.

9.4 Supply Cable

If the mains supply cord becomes damaged, replace it only with a suitably rated cable for the instrument current. Where in doubt, consult Isotech or an authorised service provider.

9.5 Service and Repairs

There are no routine user-serviceable internal adjustments described for normal use. Internal settings are factory defined. If the unit requires repair, authorised service support should be used. Do not dismantle the instrument.

10 Specifications and Compliance

10.1 Technical Specifications

Parameter	Value
Model	526
Temperature Range	-115°C to 50°C (23°C ambient)
Stability	±0.03°C (over 30 minutes)
Display Accuracy	±0.5°C (full range)
Accuracy with External References	Up to ±0.05°C (reference-dependent)
Resolution	0.01°C
Immersion Depth	130mm + 50mm insulator (effective depth 180mm)
Stabilisation Time	≈15 minutes (typical)
Cooling Time	23°C to -115°C: ≈85 minutes
Heating Time	-115°C to 50°C: ≈85 minutes
Weight	12kg (without case)
Power Supply	100-115V or 200-230V, 50/60Hz
Power Consumption	≈575W
Interface	Serial RS232
Recommended Range	21°C to 25°C
Operating Environment	15°C to 60°C, ≤80% RH non-condensing
Radial Uniformity	<0.03°C
Axial Uniformity	0.15°C (measured at -100°C)
Axial Uniformity [1]	0.45°C (measured at 40°C)
Insert Type A (Standard)	Included with the instrument: 6 pockets, 2 × 4.5mm, 2 × 6.4mm, 1 × 8.0mm and 1 × 9.5mm diameter
Optional Insert Type B	1 × 13mm, 1 × 10mm, 1 × 8mm, 1 × 5mm and 1 × 3.5mm diameter holes
Optional Insert Type C	1 × 8mm and 6 × 6.5mm diameter holes
Blank Insert	Supplied without pockets for local machining
Custom Inserts	Available to suit specific probe diameters
Refrigerant	R704, helium, less than 20 g, ASHRAE safety level A1

[1] Represents worst-case vertical gradient over 25mm.

10.2 Environmental Conditions

- Working condition listed 15°C to 60°C, ≤80% RH non-condensing, below 2000 m.
- Recommended operating environment around 21 °C to 25 °C for best stability.
- Pressure range 75 kPa to 106 kPa.
- Mains supply within ±10% of nominal.
- Minimal vibration in the calibration environment.

11 European Union – CE Marking

The product is supported by conformity documentation referencing the following EU directives:

- EMC Directive 2014/30/EU – Electromagnetic Compatibility
- Low Voltage Directive 2014/35/EU – Electrical Safety
- RoHS Directive 2011/65/EU – Restriction of Hazardous Substances

The supplied conformity documents reference the following standards:

- EN IEC 61000-6-2:2019 – Electromagnetic compatibility, generic immunity standard for industrial environments
- EN IEC 61000-6-4:2019 – Electromagnetic compatibility, generic emissions standard for industrial environments
- EN 60204-1:2018 – Safety of machinery, electrical equipment of machines
- EN 62321 series – Determination of certain substances in electrotechnical products

12 Accessories

- Insert Type A Standard Included. Optional Type B and validation Insert.
- Stylus
- Insert removal tool
- Traceable Certificate
- Power cable
- Carrying case
- User manual
- Custom inserts may be supplied to suit customer probe dimensions and application requirements.

13 Environment

This instrument should be used and stored responsibly. Keep the unit clean, dry, and free from contamination. At end of life, dispose of the instrument and any electrical components in accordance with local regulations for electrical and electronic equipment.

Avoid unnecessary waste and retain packaging where possible for safe transport and service return.