SPOT

THERMOMETER FIRMWARE UPDATE INSTALLATION GUIDE

LANGUAGE: ENGLISH

SPOT Thermometer Firmware Update



LAND
AMETEK®
PROCESS & ANALYTICAL INSTRUMENTS

QUALITY CUSTOMER SOLUTIONS

IMPORTANT INFORMATION - PLEASE READ

Health and Safety Information

Read all of the instructions in this booklet - including all the WARNINGS and CAUTIONS - *before* using this product. If there is any instruction which you do not understand, DO NOT USE THE PRODUCT.

Safety Signs

WARNING
Indicates a potentially hazardous situation which, if not avoided, could result in death or personal injury.

CAUTION
Indicates a potentially hazardous situation which, if not avoided, could result in minor or moderate injury to the user or users, or result in damage to the product or to property.

NOTE
Indicates a potentially hazardous situation which, if not avoided, could result in damage or the loss of data.

Signs and Symbols used on equipment and Documentation


Caution, risk of electric shock.


Caution, attention to possibility of risk of damage to the product, process or surroundings. Refer to instruction manual.


Caution, hot surface.


Protective Conductor Terminal.


Observe precautions for handling electrostatic discharge sensitive devices.

Equipment Operation
Use of this instrument in a manner not specified by Land Instruments International may be hazardous. Read **and understand** the user documentation supplied **before** installing and operating the equipment.
The safety of any system incorporating this equipment is the responsibility of the assembler.

Protective Clothing, Face and Eye Protection
It is possible that this equipment is to be installed on, or near to, machinery or equipment operating at high temperatures and high pressures. Suitable protective clothing, along with face and eye protection must be worn. Refer to the health and safety guidelines for the machinery/equipment before installing this product. If in doubt, contact Land Instruments International.

Electrical Power Supply
Before working on the electrical connections, all of the electrical power lines to the equipment must be isolated. All the electrical cables and signal cables must be connected exactly as indicated in these operating instructions. If in doubt, contact Land Instruments International.

Storage
The instrument should be stored in its packaging, in a dry sheltered area.

Unpacking
Check all packages for external signs of damage. Check the contents against the packing note.

Lifting Instructions
Where items are too heavy to be lifted manually, use suitably rated lifting equipment. Refer to the Technical Specification for weights. All lifting should be done as stated in local regulations.

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For further details on all AMETEK Land offices, distributors and representatives, please visit our websites.

Return of Damaged Goods

IMPORTANT If any item has been damaged in transit, this should be reported to the carrier and to the supplier immediately. Damage caused in transit is the responsibility of the carrier not the supplier.

DO NOT RETURN a damaged instrument to the sender as the carrier will not then consider a claim. Save the packing with the damaged article for inspection by the carrier.

Return of Goods for Repair

If you need to return goods for repair please contact our Customer Service Department. They will be able to advise you on the correct returns procedure.

Any item returned to Land Instruments International should be adequately packaged to prevent damage during transit.

You must include a written report of the problem together with your own name and contact information, address, telephone number, email address etc.

Design and Manufacturing Standards

The Quality Management System of Land Instruments International is approved to BS EN ISO 9001 for the design, manufacture and on-site servicing of combustion, environmental monitoring and non-contact temperature measuring instrumentation.

REGISTERED ISO 9001 MANAGEMENT SYSTEM

Approvals apply in the USA

Approvals apply in India

Certificate No. : C-1200

Operation of radio transmitters, telephones or other electrical/electronic devices in close proximity to the equipment while the enclosure doors of the instrument or its peripherals are open, may cause interference and possible failure where the radiated emissions exceed the EMC directive.

The protection provided by this product may be invalidated if alterations or additions are made to the structural, electrical, mechanical or pneumatic parts of this system. Such changes may also invalidate the standard terms of warranty.

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1 Introduction

This Installation Guide gives you instructions on how to install the Firmware Update for your AMETEK Land SPOT Thermometer. Read these instructions thoroughly before installing the update.

The Firmware Update is provided as a ZIP file from AMETEK Land.

1.1 Installing the Firmware Update

1) Download the ZIP file to the computer via which you are going to install the thermometer Firmware Update.
2) Connect the network cable from the thermometer to the Ethernet port of the computer.



2) Connect the other end of the Ethernet cable to the SPOT instrument. If the instrument is powered from the analogue connections cable, ensure this cable is also attached, as shown.



3) If you are powering the thermometer via Power over Ethernet (PoE), a suitable power injector will need to be used, as shown.

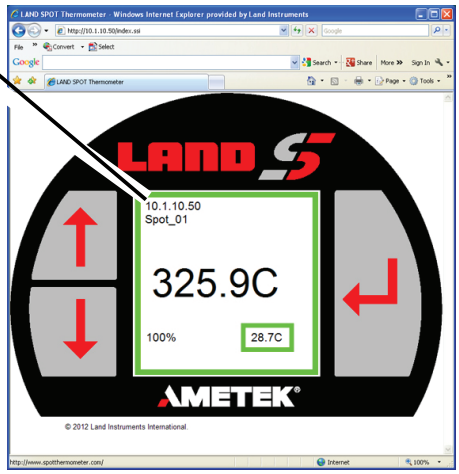
   In this example, the other end of the white cable would be connected to the computer.



4) Make a note of the IP address of your thermometer. This can be obtained by either looking at top line of the display on the rear panel of the thermometer.

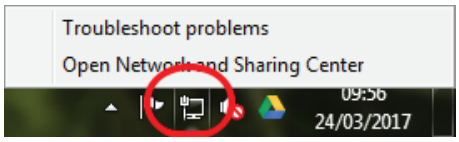


...or on the main instrument view of the SPOT Webserver software.

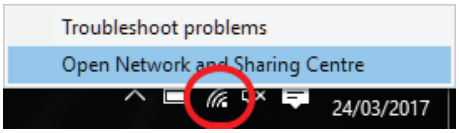


You now need to configure the network settings of your computer to be able to communicate with the instrument.

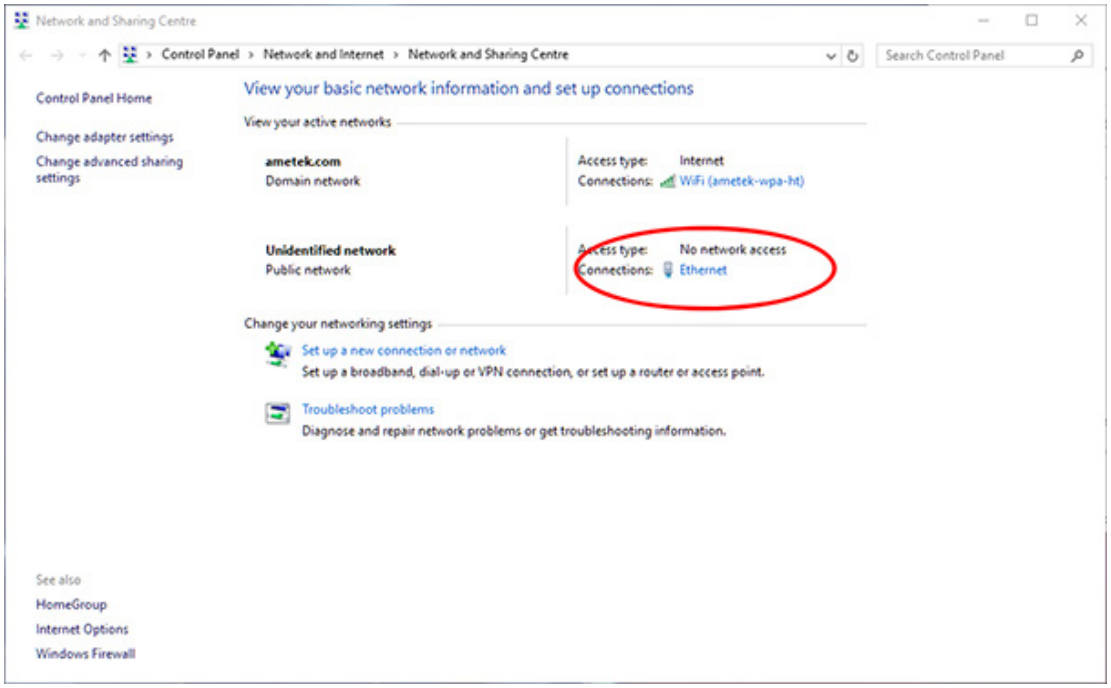
5) On your PC, open the **Network and Sharing Centre** by right clicking on the network icon in the Windows task tray (Windows 7/8/10)...



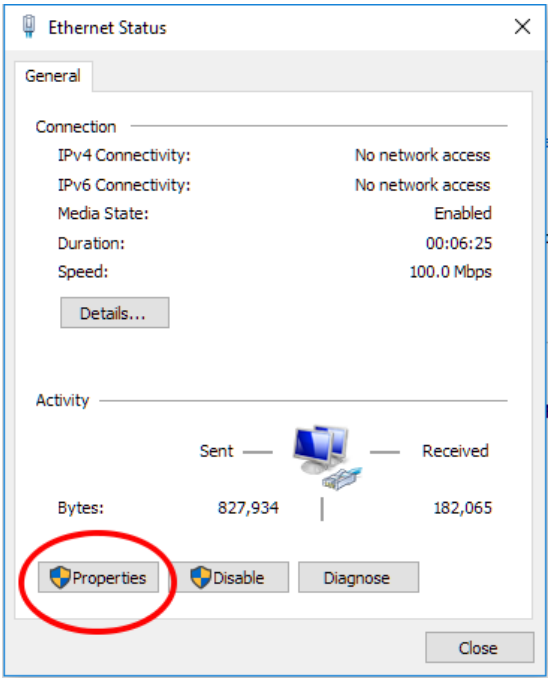
...then selecting the **Open Network and Sharing Centre** open network sharing centre option.



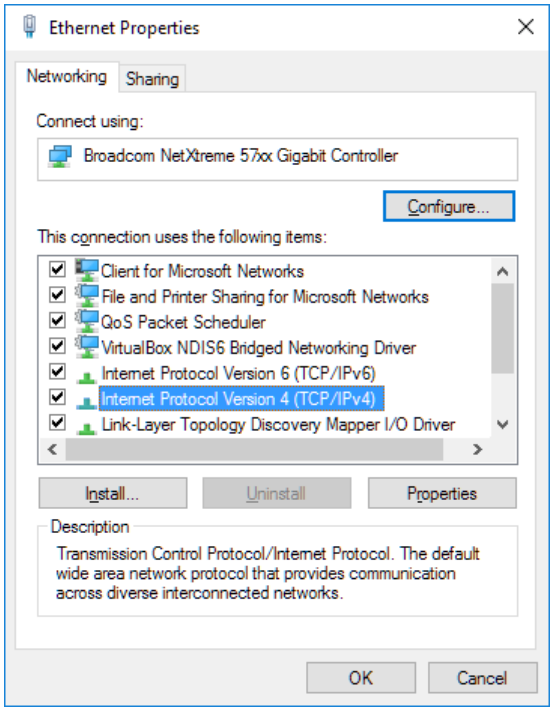
6) From the **Network and Sharing Centre**, select the **Ethernet** connection.



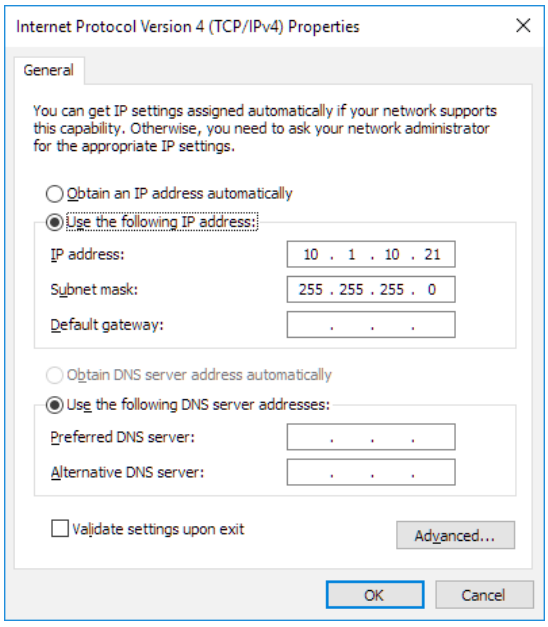
7) The **Ethernet Status** dialog is displayed. On this window, select the **Properties** button. This will require administrator privileges.



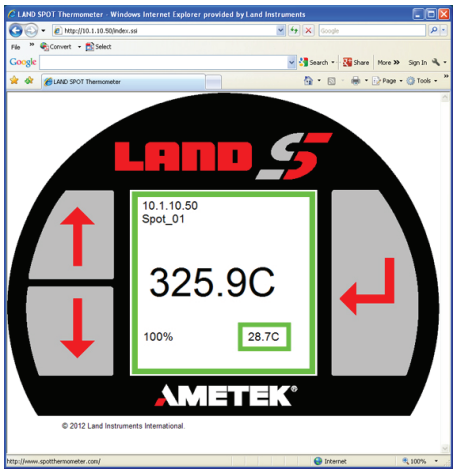
8) From the **Ethernet Properties** dialog, find and select **Internet Protocol Version 4 (TCP/IPv4)** from the list and select **OK**.



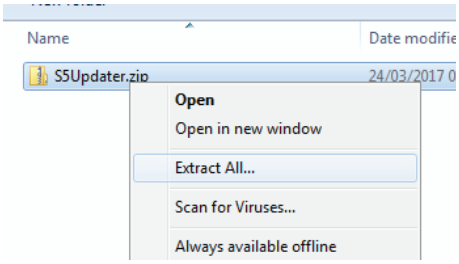
9) On the following window, select **Use the following IP address** and enter a suitable IP address for the computer. This should be compatible with the address of the instrument. For example, if the instrument has an address of 10.1.10.50, then set the computer to 10.1.10.x where x is and number between 1 and 254 but not the same as the instrument. Enter a Subnet mask of 255.255.255.0. Select OK to confirm the changes.



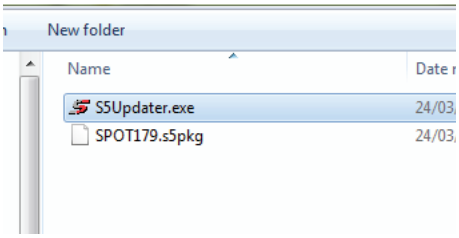
10) Ensure the computer being used for the update process can communicate with the thermometer via Ethernet. The easiest way to do this is to open a web browser and type the IP address of the instrument (10.1.10.50 by default) into the address bar. If the computer is configured correctly, the Spot web interface should be displayed. If this is not displayed, check the connection and configuration of the computer.



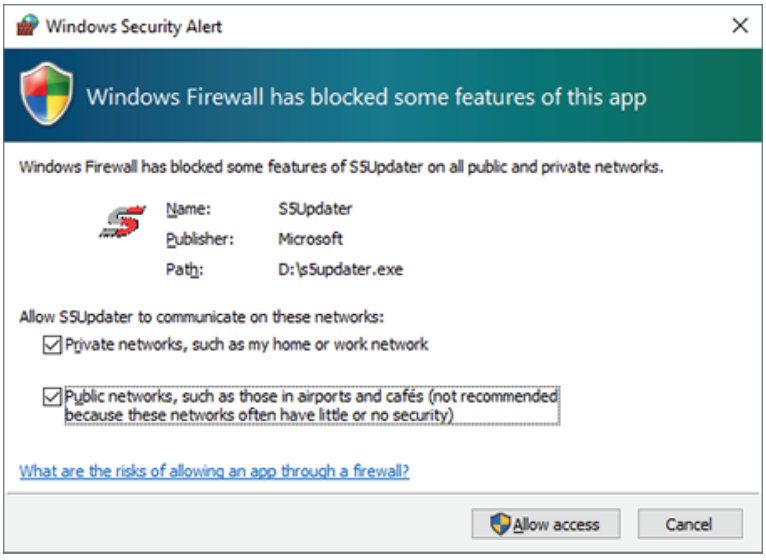
11) Extract all files from the ZIP file.



12) From the extracted files run the S5Updater program.



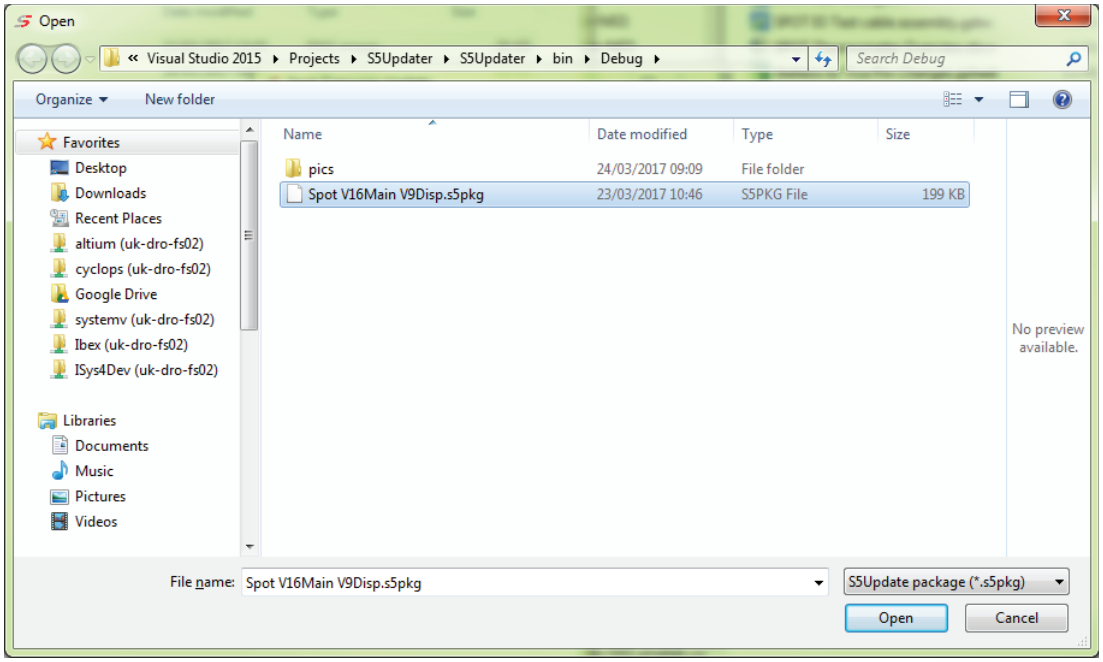
13) When running the application for the first time, Windows may show a firewall dialog. It is important to ensure that both **Private** and **Public** networks are ticked before selecting the allow access button. If these are not selected, the application may not function correctly.



14) The application will start and show the main window.

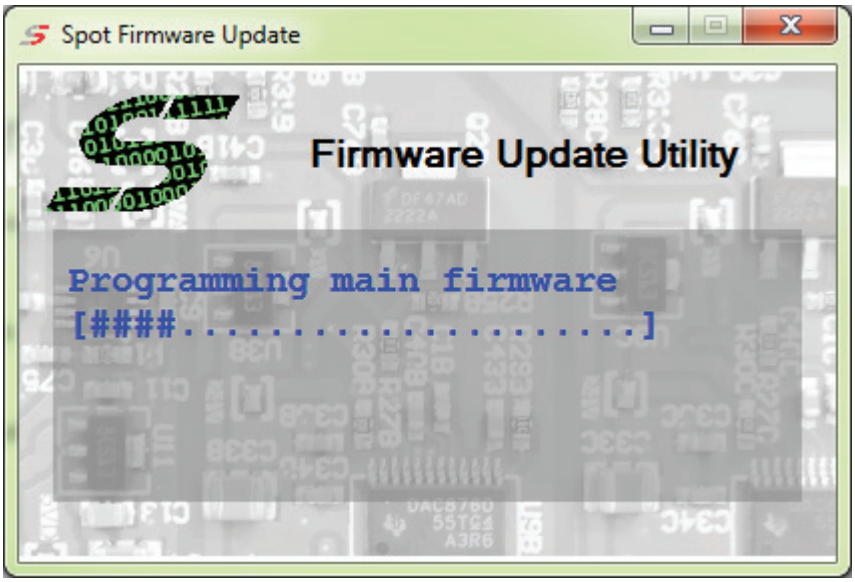


15) The **Update Package Location** text-box should be filled in automatically if the .s5pkg file has been kept in the same directory as the **s5updater** program. If this text-box is empty, the package file will need to be selected manually. Do this by selecting the '…' button and navigating to the required update package file.

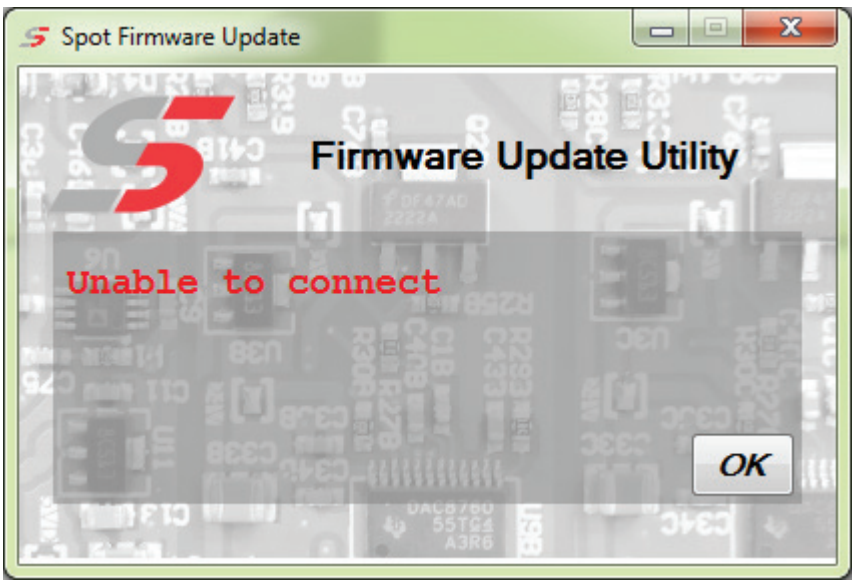


16) If the thermometer is not set to the default IP address (10.1.10.50), enter the correct IP address into the **Instrument IP** box.
17) To begin the update process, press the **GO** button.
18) There are multiple stages to the update process which are fully automated. The progress of the update will be show in the application window.

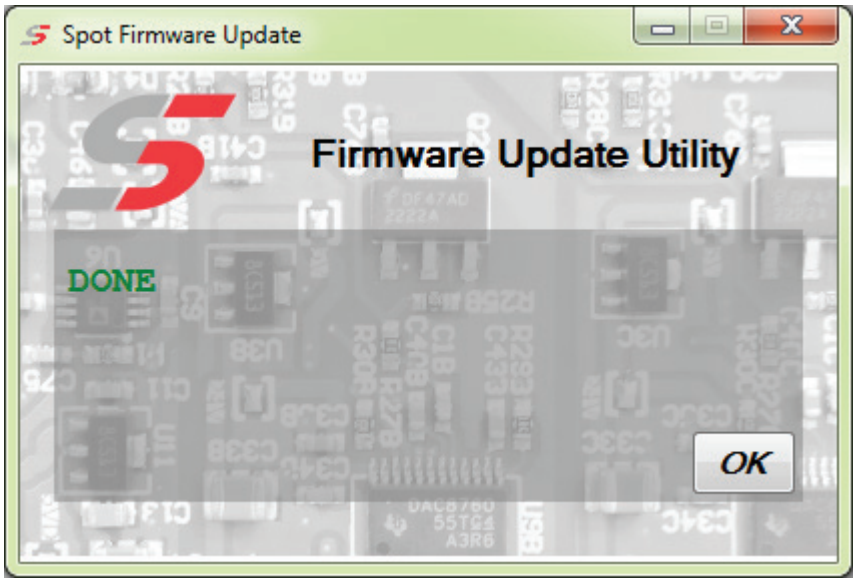
DO NOT DISCONNECT THE INSTRUMENT DURING THE UPDATE PROCESS.



19) If an error occurs during the process, a message stating the problem will be displayed in red. Press the OK button to return to the main screen. Check the connections to the instrument and the computers network settings. Restart the instrument by disconnecting the power before retrying.



20) When the update process completes successfully, the message DONE will be displayed in green. Press the OK button to return to the main screen.



The Firmware Update is now complete.

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PRODUCT WARRANTY

Thank you for purchasing your new product from Land Instruments International. This Land manufacturer's 'back-to-base' warranty covers product malfunctions arising from defects in design or manufacture. The warranty period commences on the instrument despatch date from the Land Instruments International Ltd. factory in Dronfield, UK.

36 MONTHS WARRANTY



Building upon the reputation for reliability and longevity that System 4 and UNO thermometers have earned, Land are delighted to be able to provide our customers with an industry-leading 36 month warranty for the following products:-

- SPOT thermometers, accessories and mountings and special instruments based on SPOT.
- System 4 thermometers, processors, accessories and mountings and special instruments based on System 4.
- UNO thermometers, accessories and mountings and special instruments based on UNO.
- Application-dedicated processors based on LANDMARK® Graphic.
- ABTS/S and ABTS/U
- FTS
- VDT/S and VDT/U
- DTT
- FLT5/A

This 36 month warranty is provided as standard for all orders for the products listed above received from 1st May 2002.

We believe that our customers expect us to set the standard in terms of performance, quality, reliability and value for money. This 36 months warranty, as a part of an on-going program of continuous improvement, is just one way in which Land strive to maintain our position as the temperature measurement partner of choice.

24 MONTHS WARRANTY

The following Land Instruments International products are provided with a 24 months warranty:

- ARC
- FTI-E
- NIR

12 MONTHS WARRANTY

All Land Instruments International products not provided with either a 36 month or 24 month warranty (see lists above), are provided with a 12 months warranty.

PRODUCT WARRANTY

EXCLUSIONS FROM WARRANTY

It should be noted that costs associated with calibration checks which may be requested during the warranty period are not covered within the warranty.

Land reserve the right to charge for service/calibration checks undertaken during the warranty period if the cause is deemed to fall outside the terms of the warranty.

This Land manufacturer's warranty does not cover product malfunction arising from:-

- incorrect electrical wiring.
- connection to electrical power sources outside the rating of the product.
- physical shock (being dropped, etc.) and impact damage.
- inappropriate routing, support, physical shock & strain protection, etc. of the lightguide (Fibroptic thermometers only).
- environmental conditions exceeding the IP / NEMA rating of the product.
- environmental conditions outside the Ambient Temperature, Humidity and Vibration rating of the product.
- environmental contamination (solvent vapours, deposition of airborne contamination, cooling liquids of non-neutral pH, etc.).
- overheating as a result of interruption of water/air flow through cooling jackets or of incorrect installation.
- inappropriate modification of product (drilling holes in thermometer bodies, etc.).
- inappropriate recalibration which results in product calibration being taken outside specification.
- improper resealing of thermometer following parameter adjustment (UNO, FLT5/A, etc.).
- attempted repair by a non-Land-authorised repair centre.

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