

**straightpoint**

(UK) Limited

World Leaders In Load Monitoring Technology

**Operators Instructions**

**For:**

**TRI50**

**handheld display**

## General Description

The TR150 is an advanced microprocessor controlled portable force measuring device.

It features a robust weatherproof construction, large easy-to-read display and a long battery life.

The devices are delivered ready to use with your loadcell.

Robust carry cases are available to protect this device during transit and storage - ask your supplier for details.

## Getting Started

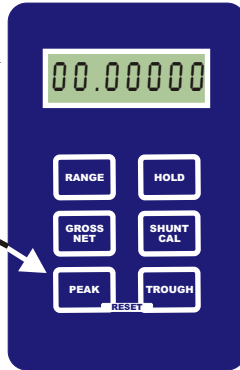
These devices are simple to use and will give long trouble free service if used as intended.

Before attempting to use the device ensure that the capacity of the unit is suitable for the task being undertaken.

The safe working load is shown on the front of each device.  
e.g. MAX. 5t x 0.001t has a maximum working load of 5 metric tonnes or 5000kg.

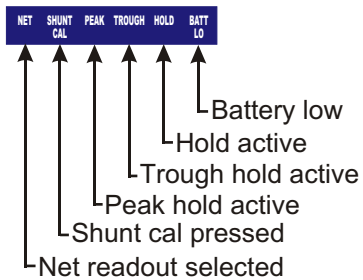
# Handheld Display

Full 7 digit LCD display



Push Buttons  
Used for normal operation  
and for configuration


# Annunciators



# Keypad



This key has two functions:

- 1)  Pressing this button for 5 seconds turns the handheld display on and off.
- 2) **TROUGH** When in normal measuring mode, pressing this button will set the “trough hold” function. This mode will freeze the display at the lowest reading recorded. Trough hold is activated until the button is repressed. When activated an annunciator on the display will point at the “TR” symbol.



**PEAK** When in normal measuring mode, pressing this button will set the “peak hold” function. This mode will freeze the display at the highest reading recorded. Peak hold is activated until the button is repressed. When activated an annunciator on the display will point at the “Pk” symbol.



Pressing the gross/net key will zero the reading and display a net value. Once pressed an annunciator on the display will point at the “net” symbol. To revert to gross mode re-press the button.



Use this button to check the integrity of the cable and connectors. Press and hold if 'overload' appears all connections are secure.



Pressing the units button will switch between the two units of measure shown on the handheld display (Normally tonnes and KiloNewtons) an annunciator on the display will point at the selected unit.



**HOLD** When in normal measuring mode, pressing this button will set the "hold" function. This mode will freeze the display at the time of button press. Hold is activated until the button is repressed. When activated the display will flash.



Pressing the "Trough" and "Peak" buttons simultaneously will reset the stored value without switching 'peak' or 'trough' hold off.

## Measuring A Load

Ensure that the device is switched on 30 minutes before loading, this will allow the temperature stability circuitry to acclimatise.

Ensure that the cable connector is securely screwed in at both ends - the loadcell and handheld display.

Apply the load SLOWLY and watch the display on the device to ensure that the load applied is not greater than you had estimated.

Avoid shock loads. Do not apply large twisting forces to these devices as it may damage them beyond repair.

After use switch off, and, if removing the device from the test site clean and store ideally in a Straightpoint carry case.

If the device is to be stored for long periods of time please remove the battery.

## Battery Care

When the battery is getting low (1-2 hrs remaining) "BATT LO" annunciator will show in the top right of the display.

When the battery is low it should be replaced with two alkaline AA cells.

To change the battery remove the two screws holding the battery plate on the rear of the device.

Ensure that the batteries are firmly in position, correctly connected, and that the gasket sealing area is clean and dry before repositioning.

## Care And Faults

While these devices are sealed to IP65 standards they should not be immersed in water.

The effects of solvent on the device can not be guaranteed, and so should be avoided.

Avoid use within 20-30 minutes of rapid changes in temperature - for example moving the device from a cold vehicle into a warm room. The change in temperature can affect the accuracy of the device, the operating temperature is -10 to +50 centigrade.

Should the display show “overload” remove the load immediately **AS THIS INDICATES AN OVERLOAD SITUATION.**

Check the load applied is within the safe working load of the device, if it continues to display overload contact your supplier.

## Service And Calibration

These products are supplied with a certificate of calibration which is valid for one year.

After this date it is recommended that the device is recalibrated by Straightpoint or an approved calibration laboratory.

Contact the Straightpoint service department or your supplier for more information.

In the unlikely event of this device failing, fit a new battery, use the ‘shunt cal’ key to check cable and re-test.

Only when this has been done should you contact your supplier to report the fault. When reporting the fault it is important to give a full description of the problem and the type of application the device is being used for.

Straightpoint (UK) Ltd  
Clovelly Road  
Southbourne  
Hampshire, PO10 8PE  
United Kingdom  
Te: ++44(0)1243 378921  
Fax: +44(0)1243 377745  
[www.straightpoint.com](http://www.straightpoint.com)  
[sales@straightpoint.com](mailto:sales@straightpoint.com)

Distributor: