TYPE: TR150



Features

- Powered by 2 x AA batteries
- O Handheld and portable
- Environmentally sealed to IP65
- Microprocessor based, allowing
- 7 digit LCD display
- Tactile keyboard with dual range
- O Auto sleep facility which can be set to suit or disabled
- RS232 output option available
- TEDS compatible (IEEE 1451 -

Typical Applications

- Portable load cell system
- Load shackle display
- O Load link display
- Hire fleet load cell display
- Portable calibration systems

TR150 Handheld Battery Powered **Load Cell Indicator**

Description

The TR150 is a completely portable, precision instrument packaged in a small, robust IP65 (NEMA 4) enclosure, weighing only 260 grams. The TR150 accepts an input range of up to 50mV/V. For simplified use, the operator only has access to six keys; on/off, gross/net, peak, trough, hold and shunt cal. Calibration and configuration can be performed from the front panel, with protection against accidental or unintentional changes. The configuration menu is very simple and enables the setting of a tare value, display resolution, filter rate, auto power off and selection of low power mode.

There are 3 calibration options; a single pass auto-calibration, entering of load cell sensitivity and corresponding display value and entering of offset and gain values for corresponding display values.

Two separate ranges are available, which enable the instrument to read and display two separate parameters; i.e. lbs/kq, tonne/kN, high/low resolution, fast/slow response etc. The menu options offer the engineer the ability to tailor the instruments response to the application. In each range all the variables can be set, including zero and filtering. Annunciators on the display give a constant indication of the operating mode of the TR150.

The TR150 features an innovative power saving facility which, when enabled can offer up to 450 hours of battery life with a 350 ohm bridge connected. In normal power mode up to 45 hours battery life is achieved with a 350 ohm bridge. It also incorporates an auto power off facility, which can be set during configuration in 1 minute increments up to 99 minutes, or it can be disabled so the instrument is powered on until the off key is depressed. The TR150 can be supplied with a number of options including a leather carry case, which enables the full operation of the indicator whilst fitted in the case.

Specification

| Input type | Strain gauge full bridge sensors | |
|---------------------------|---|--|
| Input range | Up to ± 5 mV/V (± 50 mV/V can be supplied with factory set option) | |
| Non linearity | +/-0.005% FSD | |
| Thermal drift | <5 ppm/°C | |
| Excitation voltage | 5Vdc (±4%), 59mA maximum current | |
| Minimum bridge resistance | 85Ω (4 off 350Ω sensors in parallel) | |
| Internal battery | 2 off AA size alkaline. Access via sealed rear compartment | |
| Battery life | 45 hours (typical 450 hours in low power mode), with 350 Ω sensor | |
| Update rate | Up to 40mS (can be set in configuration menu) | |
| Display type | $7\frac{1}{2}$ digit LCD display, 8.8mm high digits | |
| Display resolution | 1 part in 250,000 at 1Hz update rate | |
| | 1 part in 65,000 at 10Hz update rate | |
| Annunciators | Low battery warning, peak, trough, hold, net, shunt cal, range | |
| Electrical connection | 5 pin Binder socket (mating plug supplied) | |
| Legends | Insert legends for engineering unit identification (supplied) | |
| Enclosure type | ABS, dark grey (leather carry case optional) | |
| Operating temperature | -10°C to +50°C | |
| Environmental rating | IP65 (when mating plug fitted) | |
| Low Voltage Directive | 2006/96/EC | |
| EMC Directive | 2004/108/EC | |
| | | |

Available Options

- Leather carry case
- TEDS compatible





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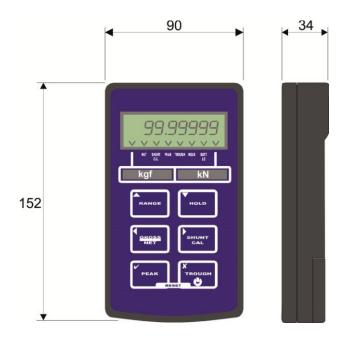
Business Hours: Monday - Friday 8:30AM - 6:15PM



vstems.com

TR150 Handheld Battery Powered Load Cell Indicator

Dimensions



All dimensions are in mm Weight: 260g

Control Variables

| Front panel user keys | ON/OFF | Switches TR150 power on/off | |
|-----------------------|---|--|--|
| | RANGE | Selects between two ranges | |
| | HOLD | Hold the current display value, press again to release | |
| | GROSS/NET | Zero's display (±100% range) | |
| | SHUNT CAL | Generates simulated input for indicator testing | |
| | PEAK | Enables peak hold | |
| | TROUGH | Enables valley/trough hold | |
| | | | |
| Settable parameters | Tare/zero value; display resolution/decimal point position, | | |
| | display update rate, low power mode, auto power off | | |

Options Available

| RS232 Output | Order code - TR150-RS232 |
|---------------------|--------------------------|
| Dual Parallel Input | Order code - TR150-C5 |



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Due to continual product development, LCM Systems Ltd reserves the right to alter product specifications without prior notice

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