



TR150 Handheld Load Cell Display

The TR150 display 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.

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.

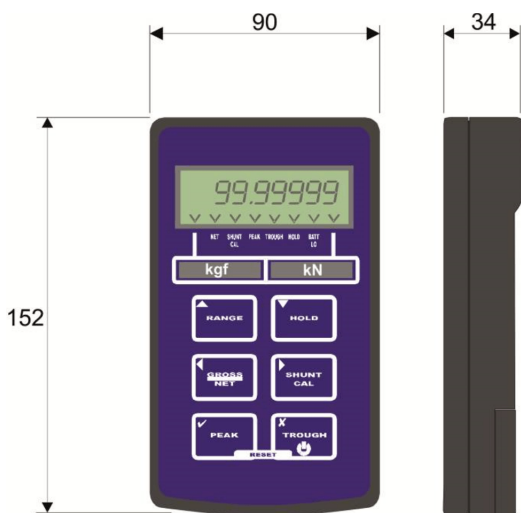
Key Features

- Powered by 2 x AA batteries
- Handheld and portable
- Environmentally sealed to IP65 (NEMA 4)
- Microprocessor based, allowing single pass calibration facility
- 7 digit LCD display
- Tactile keyboard with dual range selection
- Auto sleep facility which can be set to suit or disabled
- RS232 output option available
- TEDS compatible (IEEE 1451 - template 33)
- Optional leather carry case is also available

Technical Specification

Input type	Strain gauge full bridge sensors
Input range	Up to $\pm 5\text{mV/V}$ ($\pm 50\text{mV/V}$ can be supplied with factory set option)
Non linearity	$\pm 0.005\%$ FSD
Thermal drift	$< 5 \text{ ppm}/^\circ\text{C}$
Excitation voltage	5Vdc ($\pm 4\%$), 59mA maximum current
Minimum bridge resistance	85 Ω (4 off 350 Ω 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	7½ 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 $+50^\circ\text{C}$
Environmental Rating	IP65 (when mating plug fitted)
Low Voltage Directive	2006/96/EC
EMC Directive	2004/108/EC

Weight & 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 ($\pm 100\%$ 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

For pricing, availability or further technical information about the TR150 Display, please contact us online at www.crane-electronics.com or alternatively, email us at sales@crane-electronics.com.



Locations

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