

TR150 battery powered indicator



- **7½ digit LCD display**
- **Battery life of 5000 hours in low power mode**
- **Dual range facility**
- **Auto Sleep facility**

Description

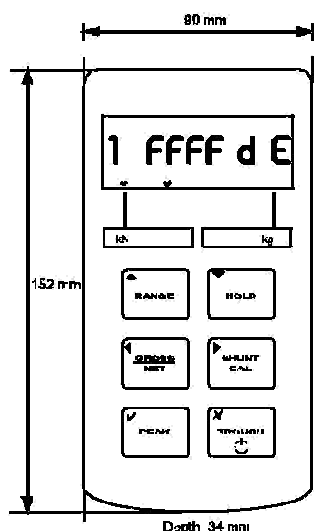
The TR150 is a completely portable, precision instrument packaged in a small robust IP65 (NEMA 4) enclosure, weighing only 260 grams. The TR150 accepts an input range of up to 50mV/V.

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 un-intentional 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.

Specification

Performance	Input Type:	Strain Gauge Full Bridge Sensors
	Input Range:	Up $\pm 5\text{mV/V}$ ($\pm 50\text{mV/V}$ can be supplied, with factory set option)
	Non Linearity:	$\pm 0.005\%$ FSD
	Excitation Voltage:	5Vdc ($\pm 4\%$), 59mA maximum current
	Minimum Bridge Resistance:	85 (4 off 350 sensors in parallel)
	Internal Battery:	2 off AA size alkaline, access via sealed rear compartment
	Battery Life:	35 hours (5000 hours in low power mode), with 350 sensor
	Update Rate:	Up to 10mS (can be set in configuration menu)
	Indication	Display Type:
	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
Control Variables	Front Panel User Keys:	Tactile Keys with recessed rims for:-
		ON/OFF Switches TR100 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;
Mechanical	Electrical Connection:	5 pin Binder socket (mating plug supplied)
	Physical Size:	See drawing below
	Weight:	260 grams
	Legends:	Insert legends for engineering unit identification (supplied)
Environmental	Operating Temperature:	-10°C to +50°C
	Environmental Rating:	IP65 (when mating plug fitted)
	Enclosure Type:	ABS, dark grey (Leather Carry Case Optional)



Note:

Maximum errors (+/-) are expressed as a percentage of rated load (when measured at 10Vdc excitation). The linearity and hysteresis is the maximum deviation from a straight line drawn between the no load and the rated load outputs for both increasing and decreasing loads. Accuracy classes apply when active range (live weight) is within 20 to 80% of rated load.