

**Portable Battery Powered
Hand Held Strain Gauge**

**TR200
Series**

DIGITAL INDICATOR



- **Portable & Battery Powered**
- **Compatible with most Strain Gauge Based Sensors**
- **10 Channel Sensor Capability**
- **Robust Construction**
- **Simple Operation**
- **Sealed to IP65**
- **3 YEAR WARRANTY**

Options Available

RS232, 0-2V, 4-20mA Outputs, scaleable via front panel.

On board datalogging, configurable via front panel.

Dual relay outputs, scaleable via front panel.

Printer outputs (consult factory).

Intelligent Sensor inputs (consult factory).

Special mounting option may be available on request.

Supplied calibrated with any strain gauge based sensors, with certification traceable to NAMAS.

DESCRIPTION

The TR200 is a microprocessor based portable instrument designed to read load cells, pressure transducers and most any other strain gauge sensor with a full bridge configuration and output sensitivity between 0.75 and 7.5mV/V. Bridge resistance's as low as 85 ohms are also compatible with the TR200.

All adjustments are entered via the sealed keypad to enable the user to set zero, scaling, decimal points, least significant digit blanking, filtering, CAL checking and peak hold. Once the parameters are set, all the menu keys can be disabled to ensure keys are not pressed by mistake. The instrument can remember the parameters of up to 10 different sensors. All values are retained in EEPROM for permanent storage.

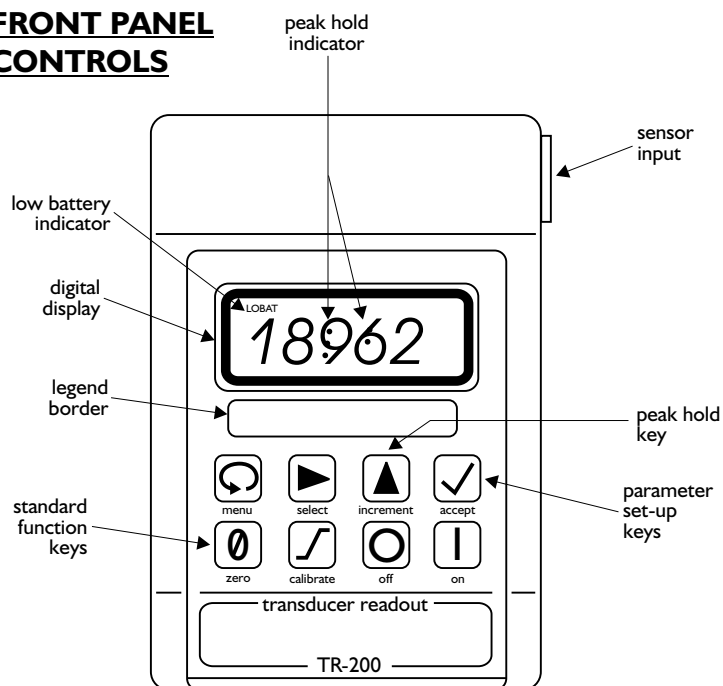
The instrument is fitted with a sealed rechargeable lead acid battery which provides a period of at least 35 hours use when connected to a 350 ohm bridge. A separate charger is supplied for recharging the Tr200.

Further options are available to further expand the TR200, these are factory fitted. This enhances the TR200 capabilities providing RS232 communications, data logging, printer interfacing, analogue retransmission and trip outputs. A facility also exists within the TR200 to externally switch channels either via a separate switch box or through intelligent plugs fitted to any sensor plugged in to the TR200 (consult factory for further details).

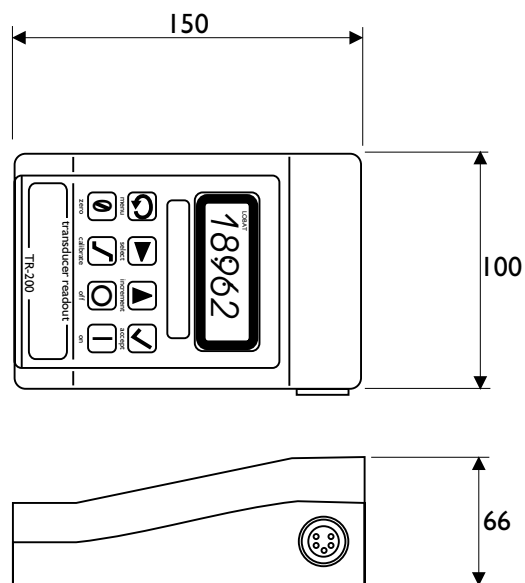
SPECIFICATION

CHARACTERISTICS	TR200	UNITS
Display:	4½ digit LCD (± 19999) 10mm high	
Resolution:	± 1	digit
Accuracy:	<0.02 (± 2 digits)	% deviation at full scale
Bridge Excitation:	5.0	volts dc
Maximum Excitation Current:	59.0	mA
Input Range:	± 0.75 to ± 7.50	mV/V for display reading of ± 19999
Zero/Tare Range:	± 100	% of full scale
Digital Filtering:	0.5 to 5	seconds per display update
Operating Temperature:	-10 to +50	°C
Thermal Drift:	< 100	ppm/°C
Integral Battery:	6V sealed Lead-Acid (re-chargeable)	
Battery Life:	35 (when a 350 ohm sensor is connected)	hours
Peak Hold Acquisition Time:	500	milliseconds
Outputs (optional):	RS232, 0-2V or 4-20mA	
Datalogging (optional):	On board memory with data log & dump	
Trip Outputs (optional):	2 relays independantly scaleable via TR200 keypad	
Printer Output (optional):	Available using RS232 output option	
Intelligent Load Cells (optional):	Channel address in mating load cell plug	
Environmental Protection:	IP65	
Relative Humidity:	95% non-condensing	
Weight:	0.60 approx.	kilogrammes

FRONT PANEL CONTROLS



PHYSICAL SIZE



All dimensions in mm