

TR200

Intelligent Loadmeter

- ◆ **Rugged weather sealed case**
- ◆ **Storage for 10 input calibrations**
- ◆ **Automatic channel selection option**
- ◆ **Auto calibration and tare**
- ◆ **Peak and valley hold**



The TR200 loadmeter is a completely portable, precision instrument packaged in a small IP65 enclosure, for use with strain gauged loadcells.

Its versatility, accuracy and sealed construction make it ideal for use in the field and laboratory.

It is supplied complete with carrying case and battery charger. The battery charger is fitted with an input voltage selector switch so that it can be powered from 115 or 230Vac.

All set up functions are via the sealed keypad using a simple menu system. These settings can be protected during normal operation by disabling certain keys.

Ten totally independent ranges are available so the meter can be calibrated to be used with ten different loadcells or for different force/weight units with the same loadcell.

The intelligent input option selects the correct channel by using coded loadcell plugs.

If the TR200 is supplied with a loadcell it will normally be calibrated to read the loadcell output in the same force units as the loadcell calibration. A traceable system certificate will be supplied for the loadmeter and loadcell combination.

This loadmeter can be used with any of our loadcells. Details of our loadcell families can be found in the Product List and the Loadcell Specifier Guide. If you require copies please contact our sales department or look on our web site at www.novatechloadcells.co.uk.

TR200 Specification

Keypad	Flush sealed to IP65
Power source	6V sealed lead-acid rechargeable battery
Battery life	35 hrs with one 350 Ω loadcell
Bridge supply	5Vdc fixed
Bridge resistance	85 Ω minimum (4 x 350 Ω loadcells)
Span	0.75 to 7.5 mV/V at full scale
Calibration check	Internal shunt resistor (standard value 100k)
Calibration	Via keypad
Tare	100% of full range
Accuracy	$\pm 0.02\%$ ± 2 digits at full range
Resolution	1:19999
Display	4½ digit 10mm high LCD
Least significant digit	Count by 1, 5 or 10
Peak and valley hold	500mS peak and valley capture
Digital filtering	0.5 to 5 seconds (4 ranges)
Zero tracking	Active on ± 3 LSD
Operating temperature	-10 to 50°C
Thermal drift	100 ppm/°C
Input connector	5 pin Binder socket- IP65 when mated
Case	ABS yellow sealed to IP65
Size	150 x 104.5 x 70.5mm (tapers to 40mm)
Weight	600g approx

Options

- L Intelligent input: channel selection via loadcell plug wiring. This version is also fitted with a 5 pin input socket so that the loadmeter can be used while it is charging.
- R RS232 output: 2400baud, 8 data bits, no parity and 1 stop bit.
The data stream consists of the sign followed by the 5 display digits terminated by a carriage return. If the decimal point is set this is sent in the appropriate position by adding an additional character to the 5 digits.
- LR Intelligent input and RS232 output combined.
- V Voltage output: ± 5 V, 5000, 10000, 15000 or 20000 display digits for full range.
- I Current output: 4 to 20mA, 10000 or 20000 display digits for full range, zero can be 12mA.
- C5 Two parallel coupled 5 pin loadcell input sockets. This allows the loadmeter to be used while it is charging.



This product complies with the requirements of the European EMC directive.

NOVATECH MEASUREMENTS LTD

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