

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 and one plug for each socket. 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.

This loadmeter can be used with any of our loadcells. Details of our loadcell families can be found in the Loadcell Specifier Guide. If you require a copy 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.

When the TR200 is purchased with a loadcell the loadmeter will be calibrated with appropriate scaling for use with the loadcell.



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

NOVATECH MEASUREMENTS LTD

83 CASTLEHAM ROAD, ST LEONARDS ON SEA, EAST SUSSEX, TN38 9NT, ENGLAND

Tel: 01424 852744

email: info@novatechloadcells.co.uk

Fax: 01424 853002

www.novatechloadcells.co.uk