#### PRINTER

To use the Tru-Test printer, connect the printer to the TR2000 with the cable supplied. Connect the TR2000 to an external 12 VDC supply (battery or power adaptor). Disconnect the printer cable when printed records are not required.

WARNING: Some cables, that connect pin 7 to the other end of the cable, may damage printers/computers.

### **COMPUTER INTERFACE**

Computer programs can request the displayed weight from the indicator via the serial port. The computer sends {RW}. The indicator responds with [102.5] for a weight of 102.5 kg/lb or [U102.5] if unstable. There is no carriage return or line feed sent or received. Computer program suppliers should contact Tru-Test for further information.

### **SPECIFICATIONS**

Note: product specifications may change without prior notice. Class III/III L, 6 or 4 wire

Cluss III/III L, 0 01 4 wire.	
n <sub>max</sub>	5000.
VSI <sub>min</sub>	l uV/d.
Loadcell excitation	5 VDC.
Input range	-2 to +17 mV.
Loadcell impedance	60 to 450 .
Power supply	12 VDC (power adaptor or vehicle battery).
Operating temperature	-10 to +40 °C (+14 to +104 °F).
Storage temperature	-20 to +35 °C (-4 to +95 °F).
Internal battery run time	8 hours with 2 loadcells connected.
Serial port	RS-232, D9 male connector, 9600 baud, 8 data bits, 1 stop bit, no parity.
	Pin 2 receive data (Rx), pin 3 transmit data (Tx), pin 5 ground, pin 7 fused 12 V output when external 12 V supplied.
Environmental	IP67 (immersion in 1 m of water).

### FOR SERVICE

USA/Canada

Phone (940) 327 8020

www.tru-test.com

Facsimile (940) 327 8048

Toll Free (800) 874 8494

## **FCC NOTICE**

The Tru-Test Model TR2000 indicator has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is used in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction leaflet, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case users will be required to correct the interference at their own expense.



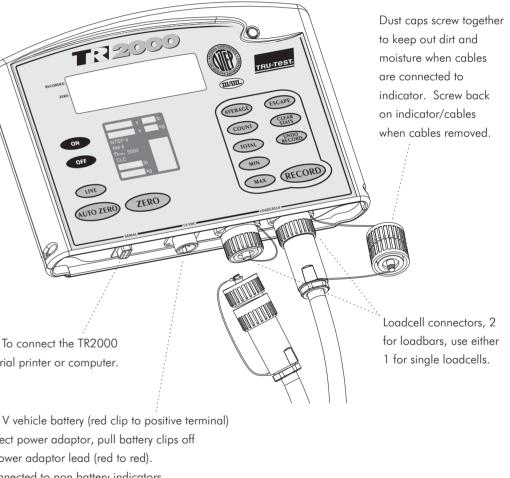
© Tru-Test Limited, 2000 P O Box 51078 Pakuranga, Auckland, New Zealand Phone +64 9 978 8888 Fax +64 9 978 8889 An ISO 9001 Quality Registered Company www.tru-test.com

# NTEP & CANADIAN WEIGHTS & MEASURES

Congratulations on your purchase of this Tru-Test Series 2000 scale indicator. To ensure you receive the service you are entitled to, please complete and post the warranty card without delay.

### INSTALLATION

- 1 Install the loadcells and platform as per manufacturer's recommendations.
- 2 Mount indicator bracket in a convenient place where the indicator or cables will not be damaged. The bracket mounts onto flat surfaces (timber rails, concrete) or horizontal pipe-work with the supplied U-bolts.
- 3 Connect loadcell(s) to the indicator. Connect dust caps as shown.
- 4 Connect power cable (if needed).



Serial port. To connect the TR2000 to a serial printer or computer.

Power connector for connecting 12 V vehicle battery (red clip to positive terminal) or Tru-Test power adaptor. To connect power adaptor, pull battery clips off indicator lead and plug lead into power adaptor lead (red to red). The power cable is permanently connected to non battery indicators.

### **BASIC WEIGHING**

# 1 Press on and wait for display.

- 2 Move item onto platform.
- 3 Wait for stable light 🔆 -.
- 4 Remove item and repeat from step 2.



# **RECORDING STATISTICS**

- 1 Press on and wait for display.
- 2 If weighing a new group of items, press **CLEAR** twice to clear memory.

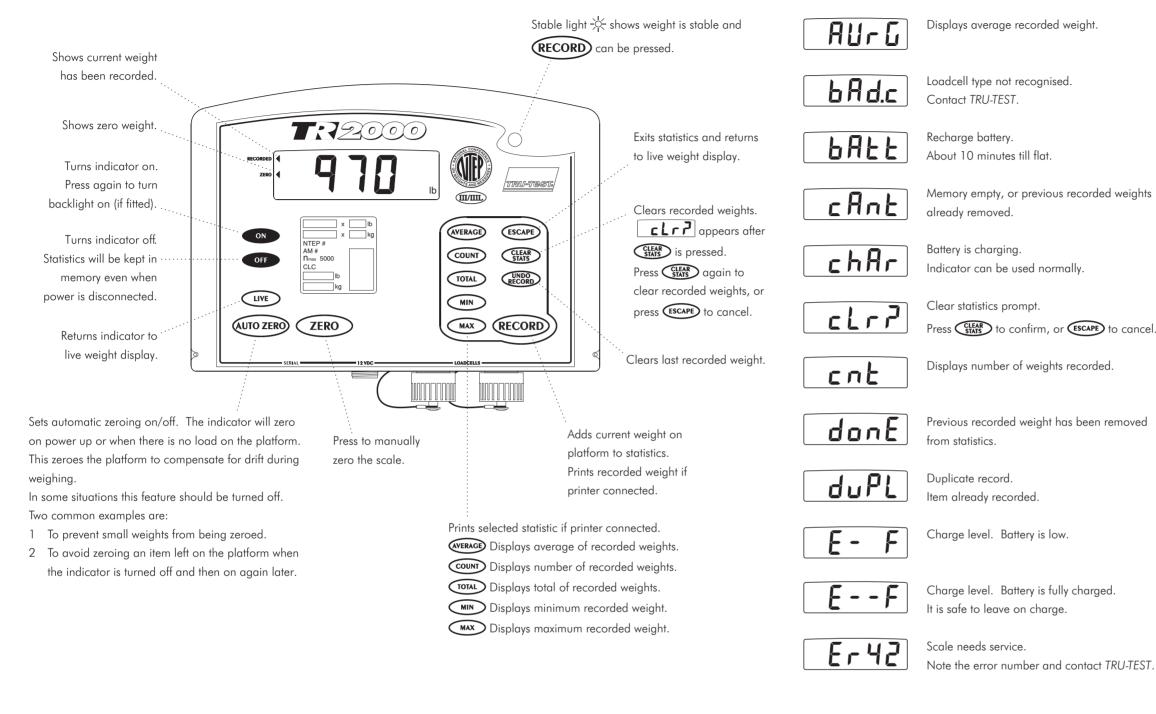
TRU-TEST 720,0

SERIES

- 3 Move item onto platform.
- 4 Wait for stable light d and press (RECORD)
- 5 Remove item and repeat from step 3.
- 6 When weighing session completed, note down statistics.

### **FUNCTIONS**

### DISPLAY MESSAGES

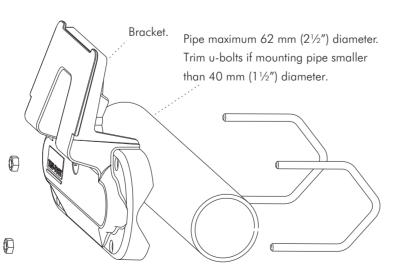


### **OPERATING NOTES**

During weighing, check that items are fully on the platform. Ensure that the underside of the platform or crate is kept clear of dirt and stones. Do not leave the indicator or loadcells in water. Store the indicator in a cool dry place. The indicator automatically turns off after 15 minutes of no activity, to limit discharge of the internal battery.

# **BRACKET INSTALLATION**

Install on a horizontal pipe as shown, or attach to the wall using screws supplied.



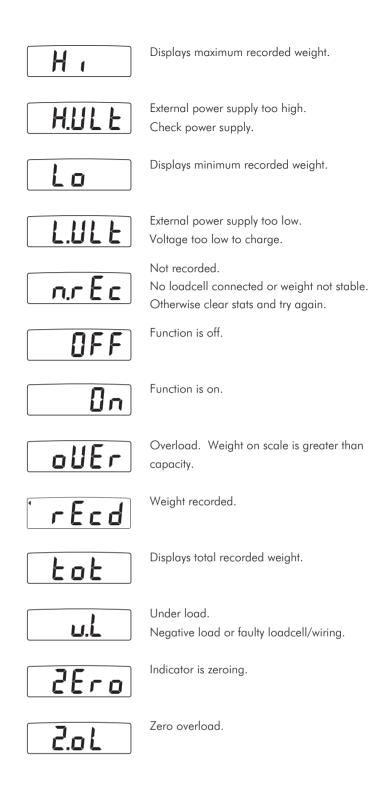
### **INTERNAL BATTERY OPTION** The internal battery charger operates from either the record caused by other charging supplies, including automotive

caused by other charging supplies, including automotive battery chargers, is not covered by the warranty. The indicator displays **bALL** about 10 minutes before flat, if the battery was fully charged within the last 2 weeks. **Charge the indicator for 12 hours before using it for the first time**. To maximise battery life, observe the following simple guidelines:

- Preferably recharge the battery overnight.
- Never charge the ilndicator in direct sunlight.
- Store the indicator in a cool dry place.

The internal battery charger ensures maximum life of the battery, while giving the fastest charging rate possible. The battery is protected from overcharging. Charging a flat battery takes 6 hours at temperatures of 10 to 35 °C (50 to 95 °F). You can safely leave the indicator on charge all the time. The scale can be used while charging. You do not need to charge before storage. Charging at low or high temperatures could extend the charging time to 12 hours. At extreme temperatures the indicator will not charge. Fully charge the indicator after storage.

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The internal battery charger operates from either the recommended Tru-Test power adaptor or a 12 volt vehicle battery. Damage to the indicator caused by other charging supplies, including automotive battery chargers, is not covered by the warranty.