Transcell Technology TI-500 SL

Transcell TI-500 SL Weighing Indicator
User Instruction Manual
Model: TI-500 SL | Brand: Transcell Technology

1. INTRODUCTION

The Transcell TI-500 SL is a robust and reliable digital weighing indicator designed for industrial applications. This NTEP and Canadian certified device features a durable NEMA 4X stainless steel enclosure, ensuring protection in harsh environments. It is equipped with a large 0.8-inch backlit LCD screen for clear readability of up to 50,000 display divisions. The TI-500 SL supports up to four 350 Ohm load cells and offers full duplex RS-232 serial communication for integration with various support equipment. Power is supplied via an AC adapter or a rechargeable lead-acid battery, providing flexibility for continuous operation.

A front-facing view of the Transcell TI-500 SL Weighing Indicator. The device features a stainless steel enclosure with a blue and white control panel. A large digital LCD screen displays '50.0 kg'. Below the screen are several circular buttons for functions like 'UNITS', 'ZERO OFF', 'SET', 'NET GROSS', 'TARE', and 'ON PRINT'. A black cable extends from the bottom of the unit, and an NTEP certification seal is visible in the lower left corner.

2. SAFETY INFORMATION

Please read all safety instructions carefully before operating the TI-500 SL indicator. Failure to comply with these

instructions may result in injury or damage to the device.

General Safety

- Operate the device only in environments suitable for its NEMA 4X / IP65 rating.
- Do not attempt to open or repair the indicator yourself. Refer all servicing to qualified personnel.
- Keep the device away from excessive heat, moisture, and corrosive substances.

Electrical Safety

- Use only the provided AC adapter for power and battery charging.
- Ensure the power outlet is properly grounded.
- Disconnect power before cleaning or performing any maintenance.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- Transcell TI-500 SL Weighing Indicator
- Stainless Steel Swivel Stand (pre-attached or separate)
- AC Power Adapter
- User Manual (this document)

4. SETUP

Physical Installation

1. Place the TI-500 SL indicator on a stable, level surface. The integrated stainless steel swivel stand allows for adjustable viewing angles.
2. Ensure adequate ventilation around the unit.

Power Connection

1. Connect the AC power adapter to the power input port on the indicator.
2. Plug the AC adapter into a suitable power outlet. The internal rechargeable lead-acid battery will begin charging automatically.

Load Cell Connection

The TI-500 SL is designed to drive up to four 350 Ohm load cells.

1. Locate the load cell input terminals on the indicator. These are typically sealed connections to maintain the NEMA 4X rating.
2. Carefully connect the load cell cables to the corresponding terminals, ensuring correct polarity and wiring as per the load cell manufacturer's instructions.
3. Secure all connections to maintain the enclosure's integrity.

Initial Power On

Press the **ON/OFF** button to power on the indicator. The display will perform a self-test and then show the current

weight reading.

5. OPERATING INSTRUCTIONS

The TI-500 SL features a user-friendly front panel with dedicated function keys.

Basic Weighing

Once powered on, the indicator will display the weight detected by the connected load cells. Ensure the scale platform is clear before taking a measurement.

Zeroing the Display

To set the display to zero when there is no load on the platform:

- Press the **ZERO OFF** button. The display will reset to 0.00.

Taring (Net/Gross Weight)

To measure the net weight of an item by subtracting the weight of a container:

1. Place the empty container on the scale platform.
2. Press the **TARE** button. The display will show 0.00 and the 'NET' indicator will illuminate.
3. Add the item to be weighed into the container. The display will now show the net weight of the item.
4. To return to gross weight, press the **NET GROSS** button.

Unit Conversion

To switch between available weighing units (e.g., kg, lb):

- Press the **UNITS** button. The display will cycle through the configured units.

Printing Weight Data

If connected to a compatible printer via the RS-232 port:

- Press the **ON PRINT** button to send the current weight reading to the connected device.

Calibration

Calibration procedures are typically performed by qualified technicians. Refer to the detailed technical manual or contact Transcell Technology support for calibration instructions. All setup parameters can be entered via the front panel keys during calibration mode.

6. MAINTENANCE

Cleaning

The NEMA 4X stainless steel enclosure allows for easy cleaning.

- Disconnect the power adapter before cleaning.
- Wipe the indicator with a damp cloth and mild detergent.
- Do not use abrasive cleaners or solvents that could damage the display or enclosure.

- Ensure all connections are sealed after cleaning.

Battery Care

The TI-500 SL is equipped with a rechargeable lead-acid battery.

- Charge the battery fully before initial use.
- Recharge the battery when the low battery indicator appears or when the display dims.
- For long-term storage, ensure the battery is fully charged and store the unit in a cool, dry place. Recharge periodically if stored for extended periods.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your TI-500 SL indicator.

Problem	Possible Cause	Solution
Indicator does not power on.	No power from AC adapter; discharged battery; faulty power button.	Check AC adapter connection and power outlet. Charge battery for several hours. If problem persists, contact support.
Display shows 'OVERLOAD' or '-----'.	Load cell overload; faulty load cell connection.	Remove excess weight from the scale. Check load cell wiring and connections.
Inaccurate weight readings.	Scale not level; calibration required; damaged load cell.	Ensure scale is on a level surface. Perform calibration (if qualified) or contact service. Inspect load cells for damage.
RS-232 communication failure.	Incorrect cable; wrong baud rate/settings; faulty port.	Verify cable type and connection. Check communication settings on both indicator and connected device.

For issues not listed here or if solutions do not resolve the problem, please contact Transcell Technology customer support.

8. SPECIFICATIONS

Feature	Description
Model	TI-500 SL
Construction	Stainless Steel NEMA 4X / IP65
Display	0.8 inch, 6 Digit LCD with LED backlight
Load Cells	Drives up to four 350 Ohm Load Cells
Serial Port	Full Duplex RS-232C
Power	AC Adapter or Rechargeable Lead Acid Battery

Feature	Description
Special Features	Backlit Display, High Weight Capacity (up to 50,000 display divisions), Large Display
Color	Silver
Product Dimensions	2.9 x 5.5 x 8.9 inches
Weight	3 Pounds

9. WARRANTY INFORMATION

Transcell Technology products are manufactured to high quality standards. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official Transcell Technology website. Keep your purchase receipt as proof of purchase for warranty claims.

10. SUPPORT INFORMATION

For technical assistance, troubleshooting beyond this manual, or service inquiries, please contact Transcell Technology customer support. Contact details can typically be found on the manufacturer's official website or on the product packaging.
Manufacturer: Transcell Technology

Related Documents - TI-500 SL

TRANSCELL TECHNOLOGY, INC. TI-1600 Series Digital Indicator Setup / Operation Manual	[Transcell TI-1600 Series Digital Indicator Setup and Operation Manual](#) This manual provides detailed instructions for the installation, setup, configuration, operation, and calibration of the Transcell TI-1600 Series Digital Indicator, including models TI-1600, TI-1610, TI-1620, and TI-1630.
TRANSCELL TECHNOLOGY, INC. TI-1500 / TI-1520 Digital Weight Indicator Setup / Operation Manual	[Transcell TI-1500 / TI-1520 Digital Weight Indicator Setup and Operation Manual](#) This manual provides detailed setup and operation instructions for the Transcell TI-1500 and TI-1520 Digital Weight Indicators. It covers installation, configuration, calibration, and various operating modes such as weighing, piece counting, peak hold, and remote display.

TI-300 Series Digital Indicator Setup / Operation Manual	[Transcell TI-300 Series Digital Indicator Setup and Operation Manual](#) Comprehensive setup, configuration, and operation manual for the Transcell TI-300 Series Digital Indicator. Covers installation, calibration, user menus, and specifications.
TI-600E-SS Digital Indicator Setup / Operation Manual	[Transcell TI-600E-SS Digital Indicator: Setup and Operation Manual](#) This manual provides detailed instructions for the Transcell Technology TI-600E-SS Digital Indicator. It covers installation, configuration, calibration procedures, operational guidance, technical specifications, and troubleshooting for this industrial-grade weight indicator.
TI-500E SD Digital Indicator Setup / Operation Manual	[Transcell TI-500E SD Digital Indicator Setup and Operation Manual](#) This manual provides comprehensive setup and operation instructions for the Transcell TI-500E SD Digital Indicator, covering installation, configuration, calibration, operation, specifications, serial port information, and error codes.
MSB-4300 MILD STEEL BENCH SCALE	[MSB-4300 Mild Steel Bench Scale - Transcell Technology Datasheet](#) Detailed specifications and features for the Transcell MSB-4300 Mild Steel Bench Scale, designed for rugged industrial applications. Includes information on construction, overload protection, NTEP-approved indicators (TI-500ESS, TI-500SL), and available options.