

# MODEL TI-1600 SERIES DIGITAL INDICATOR

## APPLICATIONS

- Weighing Systems
- Mechanical Conversion Kit
- Simple Truck Scale

## FEATURES

- Heavy Duty ABS NEMA 12 Enclosure (TI-1600/1610)
- Heavy Duty Stainless Steel NEMA 4X Enclosure (TI-1620/1630)
- NTEP and Canadian Approved for 10,000 Divisions
- CE Electromagnetic Compatibility
- Internal Power Supply
- Full Duplex RS-232 Serial Port
- Simplex RS-232 / 20 mA Current Loop Serial Port
- Keyboard Tare Entry
- Tare and APW Stored in Non-volatile Memory
- Keyboard ID Entry
- Gross/Net/Tare Print Ticket Mode with 6 Digit ID Number
- Easy to Read LED Display (TI-1600/1620)
- Easy to Read Liquid Crystal Display (TI-1610/1630)
- Piece Count Mode
- Custom Unit
- Time/Date Standard
- Displays up to 50,000 Graduations
- Drives up to eight 350 Load Cells
- Full Front Panel Configuration
- Heavy Duty Swivel Mounting Stand
- Watchdog Circuitry



Transcell Technology inc.

# MODEL TI-1600 SERIES DIGITAL INDICATOR

## INTRODUCTION

The TI-1600 Series, available in both ABS and stainless steel enclosures, is a general-purpose 10,000 division digital indicator. The indicator comes standard with keyboard tare entry. The TI-1600 and TI-1620 come with a bright LED display for easy readout in darker areas, while the TI-1610 and TI-1630 come with a Liquid Crystal Display (LCD) for easy readout in direct sunlight. The TI-1600 and TI-1610 are housed in an ABS NEMA 12 rated enclosure while the TI-1620 and TI-1630 are housed in a stainless steel NEMA 4X rated enclosure. All units are capable of displaying up to 50,000 display divisions and supply enough current for up to 8-350( load cells. All setup parameters may be entered via the front

panel keys.

The TI-1600 Series comes standard with one full duplex RS-232 serial port, one simplex RS-232C serial port and one simplex passive 20 mA current loop serial port.

Other features include piece count and custom unit.

## OPTIONS

"Y" Interface Cable for TI-1600/1610  
Interface Cable for Serial Printer  
Interface Cable for PC

## ALSO AVAILABLE

LRD-LED -Remote Display with Large (2") LED Display

## PRODUCT MATRIX

MODEL	DISPLAY TYPE	ENCLOSURE TYPE
TI-1600	LED (light emitting diode), 1.0" tall	ABS, NEMA 12 rated
TI-1610	LCD (liquid crystal display), 0.75" tall	ABS, NEMA 12 rated
TI-1620	LED (light emitting diode), 1.0" tall	Stainless Steel, NEMA 4X rated
TI-1630	LCD (liquid crystal display), 0.75" tall	Stainless Steel, NEMA 4X rated

## SPECIFICATIONS

**Load Cell Excitation:** +10 VDC

**Load Cell Current:** Drives up to eight 350 load cells

**Analog Signal Input Range:**

0.2 mV/V min to 3.0 mV/V max

**Analog Sensitivity:** 0.4 V/grad, minimum

1.0  $\mu$ V/grad recommended minimum  
for Legal-for-trade

**A/D Conversion Rate:**

Up to 30 meas./sec at span gain setting of 25

**CE Electromagnetic Compatibility:**

Directive No. 89/336/EEC

EN50082-1, EN61000-4, EN55011

**Current Consumption:**

**TI-1600/1620:** 200 mA + 30 mA per 350  $\Omega$  load cell

**TI-1610/1630:** 80 mA + 30 mA per 350  $\Omega$  load cell

**A/D Resolution:** Up to 300,000 internal counts at 3mV/V

**Canadian Weights & Measures:**

General Class III at 10,000 divisions

Approval Number AM-5305

**Display:**

**TI-1600/1620:** 1.0", 6-Digit LED, Green

**TI-1610/1630:** 0.75", 5-1/2 Digit LCD

**Display Resolution:**

Up to 50,000 external grads, selectable

**NIST Classification:**

H-44 Class III/ IIIL at 10,000 divisions C.O.C. # 99-017

**Key Functions:** Zero, Net/Gross, Tare, Units, Sample, APW, Dec. Pt., CL, 0-9

**Annunciators:** Zero, Tare, Gross, Net, lb, kg, Stable, Pieces

**Serial Output:** Full duplex RS-232C

Simplex RS-232C

Simplex 20mA Current Loop, Passive

**Power (Standard):** 110/220VAC, 50/60 Hz

**Power (Optional):** 12VDC

**Operating Temperature:**

-10°C to 40°C (14°F to 104°F)

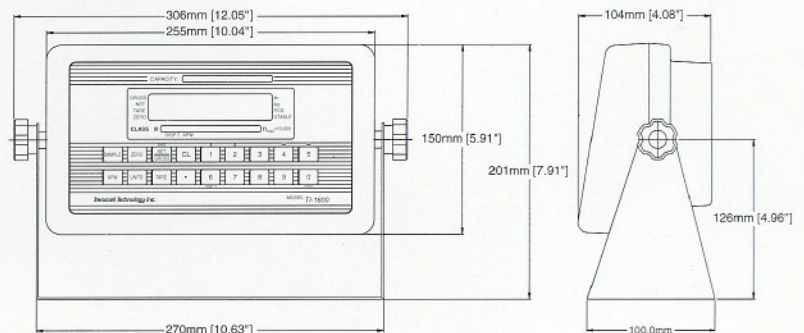
**Indicator Dimensions:**

12" x 8" x 4" (305 mm x 203 mm x 102 mm)

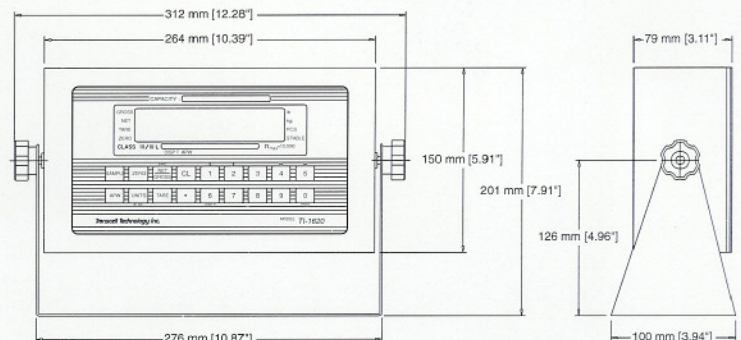
**Warranty:** 1 year limited warranty applies

## PHYSICAL DIMENSIONS

### TI-1600 / TI-1610



### TI-1620 / TI-1630



## DISTRIBUTED BY

