

PT300™ Series

WHEEL LOADS CALES



CLASS III CERTIFICATE
#90-106

ISO 9001:2000
Registered

PT300™/PT300DW™

Self-Contained, High-Capacity Digital Wheel Load Scales from Intercomp...

The PT300 Series of scales are designed to maximize legal payloads with concern for violations and reduction of maintenance due to overload stress on equipment.

Weighing a mere 37 lb/16.8 kg, the PT300 is a sturdy, all aluminum, fully electronic, self-contained wheel load scale that is capable of weighing loads up to 20,000 lbs with an accuracy of $\pm 1\%$. The PT300DW weighs only 49 lb/22kg and is capable of weighing loads up to 40,000 lb/18,000 kg.

The scales are fully battery operated and only require infrequent recharging that can be accomplished by any 12, 110, or 220 volt power source. A charger adaptor is provided.

The display area can be lighted for night use by merely touching the "LAMP" switch. It is possible to sequentially couple any number of PT300 scales in series, for the purpose of obtaining the total weight of a vehicle. By activating the "TOTAL" switch, the total weight of all the preceding scales will be displayed. The scales are linked at the I/O terminal jack with an optional cable.

The I/O terminal will also transmit required data to a printer or a display, such as Intercomp's S400HI ultra bright digital display. Also available are optional carrying cases that exceed government specifications.

We invite your most exacting questions on the capabilities of the PT300 Series Wheel Load Scale Systems.



General

These scales are designed as NTEP class III weighing devices.

Data Interface: 20 mA current loop.

Batteries: Operates on 6 -1.2 volt ni-cads (standard), or alkalines.

Battery Life: Approximately 1 year.
(1500 charge/discharge cycles).

Battery duration between charges: Approximately 8 hours of continuous use before the scale shuts itself off.
(These numbers are lowered by the use of the lamps or active current loop transmission).

Charging Voltage: 11.5 volts - 14.5 volts D.C. Protection is provided for accidental reversal of the charging connections.

Charging Current: Starts at 300mA

and drops down to 50mA after 8 hours.

Charging Time: 8 hours if the batteries are discharged to the point of turning off the scale.

Accuracy: $\pm 1\%$



PT Axle Weigher Indicator with PT300-LI pads and carrying case

Specifications

OPTIONS

- Notebook computer with axle weight software
- Ramps
- Interconnect cables for totalizing and printing weights
- Weigh pads (less indicator) for tying into remote indicator
- PT20 Axle Weigher CPU
- 220 volt 50Hz battery charger
- 2, 4, or 6 weigh pad carrying cases
- Dummy weigh pads for leveling
- Printers for printouts of wheel, axle, axle group, gross weight, time and date, etc.
- PT Axle Weigher Indicator

SPECIFICATIONS

AMBIENT

Humidity: 10 to 95% Non-Condensing

Temperature:

Operating:

-28°C to 65°C

-20°F to 150°F

Storage:

-40°C to 75°C

-40°F to 170°F

EMI/RFI: Meets Mil Spec 461

PHYSICAL:

Overall size:

PT300:

3 x 16 x 20 inches/76 x 406 x 508 mm

PT300DW:

3 x 26 x 20 inches/76 x 660 x 508 mm

Platform:

PT300:

12 x 12 inches/305 x 305 mm

PT300DW:

22 x 14 inches/559 x 356 mm

Weight:

PT300:

37 lb/16.8kg

PT300DW:

49 lb/22 kg

SPECIFICATIONS (continued)

Case: Aerospace grade cast aluminum

Display Size: 0.55 inch/14 mm LCD

ELECTRICAL:

Voltage: Self-contained nickel cadmium batteries (standard) or alkalines. Integral recharger to charge or operate from a 12, 110 or 220 volt power source.

OUTPUTS:

Axle

Totalizing: Transmits weight to another scale for totalizing individual axles. Will totalize axles, tandem axles or wheel groups

Printers: 20mA passive current loop to interface with a remote printer or display

CONTROLS

General: All controls are located on a waterproof membrane keypad with large contact surfaces

Print: When activated, outputs weight local

On/Off: Two separate switches for unambiguous operation

Zero/Test: Pushbutton zero checks for motion to HB-44. Test performs internal test

Hold/Release: Hold places scale in automatic capture mode for roll over weighing. Release places scale in "normal" static weighing mode

Lamp: Momentary action to activate high efficiency light emitting diodes for night usage

lb/kg: Sets unit of measure

Local/

Total: Local is the standard mode for weighing. Total mode enables the scale to accumulate weights

INDICATORS

Total: Accumulative mode of weighing

Battery: Low battery

Hold: Roll over weighing mode

lb: Unit of measure

kg: Unit of measure

FILTERING

Analog: π filter

Digital: Average of several internal weights gives steady readings for unstable load

Auto-Zero: Satisfies all HB-44 requirements

PERFORMANCE

Speed: 950 milliseconds to typical reading (static)

Accuracy: $\pm 1\%$ of reading static mode

Units: lb, kg, selectable

PT300:

Capacities:	Graduations:
20,000 lb/10,000 kg	10,20,50,100 lb/ 5,10,20,50 kg

10,000 lb/5,000 kg	5,10,20,50 lb/ 2,5,10,20 kg
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5,000 lb/2,000 kg	5 lb/2 kg
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PT300DW:

Capacities:	Graduations:
40,000 lb/18,000 kg	100 lb/50 kg

30,000 lb/15,000 kg	50 lb/20 kg
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20,000 lb/10,000 kg	10,20,50,100 lb/ 5,10,20,50 kg
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10,000 lb/5,000 kg	5,10,20,50 lb/ 2,5,10,20 kg
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5,000 lb/2,000 kg	5 lb/2 kg
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Other capacities and graduation sizes available

Safe Overload: 150% of capacity



PT300 and PT300DW are trademarks of Intercomp. Specifications are subject to change without notice.

Patents 4,714,121 and 4,775,018