# lab Force

**powered by Thomas Scientific**

**Versatility of applications**
**Ease of operation and reliable design**
**Quality and precision at a low price**



# TS-L.N Laboratory Balances

STANDARD WEIGHING
WITH NTEP CERTIFCATION

# labForce
### powered by *Thomas Scientific*

## Standard weighing with NTEP Certified Balance

# TS-L.N Series
## Laboratory Balances

**Legal for Trade**
All TS-L.N Series balances come with NTEP certificates.

**Precise Measurement and Repeatability**
The automatic adjustment system of TS-L.N Series balances is a control-verifying tool enabling precise weighing performance in any conditions. The TS-L.N series designed of monoblock components provides fast measurement and repeatability.

**Easy-to-read Information Arrangement**
The clear weighing result display is guaranteed due to the large, easy- to-read LCD. On screen symbols inform you of real-time function or working mode, connection status, etc. An additional text line allows a preview of weighing process-related messages and information.
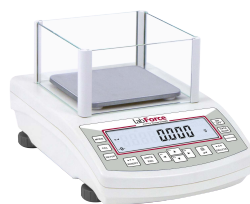
**USB and RS232 Interface**
Connect the TS-L.N Series balance to a computer or printer through the USB or RS-232 connection for quick and easy recording of results.

**User-friendly Draft Shield**
A 3-door draft shield is standard on all analytical models (excludes milligram and high-capacity models). The internal dimensions and three sliding doors make access to the chamber a breeze. All draft shield doors, stainless steel weigh pan, and draft chamber floor are easy to remove for cleaning.

**Five year warranty included on all models**

| Model | TS-L-224.N | TS-L-314.N | TS-L-213.N | TS-L-363.N | TS-L-1003.N | TS-L-2102.N | TS-L-3502.N | TS-L-4502.N |
|---|---|---|---|---|---|---|---|---|
| Maximum Capacity | 220 g | 310 g | 210 g | 360 g | 1000 g | 2100 g | 3500 g | 4500 g |
| Readability [d] | 0.1 mg | 0.1 mg | 1 mg | 1 mg | 1 mg | 0.01 g | 0.01 g | 0.01 g |
| Taring Range | 0-220 g | 0-310 g | 0-210 g | 0-360 g | 0-1000 g | 0-2100 g | 0-3500 g | 0-4500 g |
| Repeatability | 0.1 mg | 0.1 mg | 1 mg | 1 mg | 1 mg | 0.01 g | 0.01 g | 0.01 g |
| Linearity | ±0.2 mg | ±0.2 mg | ±2 mg | ±2 mg | ±2 mg | ±0.02 g | ±0.02 g | ±0.02 g |
| Adjustment | Internal | | Internal | | | Internal | | |
| Stabilization Time | 3.5 sec | | 2 sec | | | 1.5 sec | | |
| Pan Size | 100 mm (3.9 in) | | 128 x 128 mm (5.7 x 5.7 in) | | | 195 x 195 mm (7.7 x 7.7 in) | | |
| Unit Dimensions | 333 × 206 × 325 mm (13.1 x 8.1 x 12.8 in) | | 333 × 206 × 100 mm (13.1 x 8.1 x 3.9in) | | | 333 × 206 × 100 mm (13.1 x 8.1 x 3.9in) | | |
| Communication ports | 2 x RS-232, 2 x USB (A&B), Ethernet | | 2 x RS-232, 2 x USB (A&B), Ethernet | | | 2 x RS-232, 2 x USB (A&B), Ethernet | | |
| Catalog Number | 1160U06 | 1160U07 | 1160U08 | 1160U09 | 1160U10 | 1160U11 | 1160U12 | 1160U13 |

# labForce
### powered by *Thomas Scientific*