

HORIZONTAL MASTER TESTER

200 lb.in., 100 lb.ft., and 600 lb.ft. transducers

Accuracy: 0.25% of reading +/- LSD



Features and Benefits

- NTEP certified Class II/III electronics deliver NIST certified accuracy that is unmatched in horizontal master testers with 10,000,000 counts and 10 display updates per second.
- The sturdy welded steel plate construction of the mechanical subassembly delivers many years of dependable service.
- Software interface is easy to use and optimized for fast, efficient calibration of torque wrenches.
- Unit is easily calibrated to stated accuracy with Precision Instruments' test bars and Class F test weights
- Displays in units of lb.ft., lb.in., oz.in., N-m, kg-m, and kg-cm.
- Made in USA

The Precision Instruments TMH600F Horizontal Master Tester combines state of the art technology with robust mechanical engineering to deliver the most accurate, easy to use, and durable tester for demanding calibration laboratories. The TMH600F is designed to be a complete and flexible calibration solution. The peak-hold feature incorporates a new "hands free" mode to increase efficiency. A certificate generation function allows the unit to print certifications directly to a printer or to a computer for storage. The NTEP certified scale is independently traceable to NIST standard Handbook 44, and stores dates and data of tester calibration for auditing purposes. Additionally, Precision Instruments can create custom modifications to the system that can be installed by the owner without having to return the unit to the factory. The end result is a state of the art system that sets the standard for complete, accurate torque testing and verification.

ELABORATION ON SELECTED FEATURES

NTEP Certified

The state of the art 1310 display unit utilizes technology that is certified by the National Type Evaluation Program (NTEP) to meet or exceed NIST Handbook 44. This NIST standard covers the performance of all scales and indicators to ensure that their accuracy and operation is to "legal for trade" standards. This means that unlike competitors that claim accuracy as per their standards, the TMH600F display unit has been independently verified for adherence to NIST standards. The display unit is Underwriters Laboratories, Inc. listed.

Peak-hold

The TMH600F features a simple "hands free" peak-hold feature that makes getting readings fast and efficient. When in peak-hold mode, the display will automatically detect a click in the wrench when applying load. At this point, the display will enter the value into a buffer that contains the last three readings and is displayed on the unit. The display will retain this reading as the operator returns the wrench to its neutral position. While the operator is "winding down" the tester, the display will track the reading on a separate line on the display. When the operator proceeds to load the wrench for the next reading, the peak reading will reset to capture the next peak and insert it into the "peak reading buffer." This allows the tester to record peak after peak without resetting the display. Additionally, by pressing the "print" button, the data within the buffer will print out to an attached computer. This eliminates the need to transcribe values by hand.

Transducer Selection

Selecting the correct transducer is as simple as pressing a button. The display indicates which transducer is selected in the corner of the display and corresponds to the number printed on the side of the transducer.

Certificate Generation

The TMH600F tester includes a simple certificate generation program to create paper or electronic copies of calibration readings. The operator is able to enter the model number, test points, accuracy, the number of readings at each test point, select whether the wrench operates in the counterclockwise direction, and whether to show the average of the readings on the certificate. Then for each wrench, the operator can enter the serial number and an operator code. The display then walks the operator through the calibration procedure and interrupt the operator when a reading is out of tolerance. After completing the process, the tester can then print the certificate to an attached serial printer or computer.