

PRECISION INSTRUMENTS

Master Torque Testers



Make the Precision Decision™ and experience . . .

- Accuracy - $\pm 1/10$ of 1% of the reading plus one least significant digit.
- High Resolution of Counts Used – Up to 50,000 counts (digits) used regardless of the scale being displayed.
- 6 Scales provided – lb.ft., lb.in. oz.in., Nm, Kcm, Kgcm.
- User Scale – This user scale is provided for future needs
- Peak Hold Feature - When testing click type torque wrenches, this is the only way to go. The click torque reading is held on the display until released.
- Printer – Is available (not included) to provide a hard copy of the display reading.
- Loading Device -- allows for accurate loading of torque wrench being tested. Extension arms are supplied for testing extra long torque wrenches on TMV5F1000F and TMV6F2000F.
- Certification -- All TMV series testers include a TB test bar for certification and calibration. TB test bars are traceable to NIST and require only customer supplied NIST class F test weights. TB test bars apply test loads directly to the input square of the TMV removing all error due to wires, tapes, bearings and non class F weight that is found in other competitive torque testers.
- Traceability -- The TMV series testers are the only torque testers that meet the requirement of NTEP. NTEP certification means the measuring and indicator elements of these testers comply with NIST Handbook 44 requirements. Each indicator and load cell has its own COC number directly traceable to NIST. The components are manufactured on a "legal for trade" basis and are not simple proprietary components.
- Adaptors – All necessary square drive adaptors are included as required per each master torque tester.
- Power Requirements – 120/240VAC, 50/60Hz



| Master Tester Series | | | | Master Test Bar | | |
|----------------------|---------------|-----------------|--|-----------------|--------|--------|
| Models | Female Sq.Dr. | Tester Size | Adaptors Provided | Master Test Bar | Length | Sq.Dr. |
| TMV3F100H | 1/2" | 38H x 27W x 21D | TQN130, 1/4F x 1/2M TQN131, 3/8F x 1/2M TQN8-400, 1/4M x 1/2M* | TTB8 | 12" | 1/2" |
| TMV3F50F | 1/2" | 38H x 27W x 21D | TQN130, 1/4F x 1/2M TQN131, 3/8F x 1/2M | TTB250A | 36" | 1/2" |
| TMV5F1000F | 1" | 72H x 36W x 25D | TQN131, 3/8F x 1/2M TQN144, 1/2F x 1M TQN145, 3/4F x 1M | TTB1000A | 48" | 1" |
| TMV6F2000F | 1-1/2" | 72H x 49W x 25D | TQN131, 3/8F x 1/2M TQN144, 1/2F x 1M TQN145, 3/4F x 1M TQN146, 1F x 1-1/2M | TTB2000 | 48" | 1-1/2" |

* TQN8-400 adaptor is included with the TTB8 Mater Test Bar with the TMV3F100H Master Tester combination.

| Model TMV3F100H | |
|------------------|---------------------|
| Maximum Capacity | Steps of Graduation |
| 8,500 lb.ft. | .001 |
| 102.00 lb.in. | .01 |
| 1632.0 oz.in. | .1 |
| 11,526 N m | .001 |
| 1,1747 kg m | .0001 |
| 117.47 kg cm | .01 |

| Model TMV3F50F | |
|------------------|---------------------|
| Maximum Capacity | Steps of Graduation |
| 55,000 lb.ft. | .005 |
| 660.00 lb.in. | .02 |
| 10,560.0 oz.in. | .5 |
| 74,580 N m | .005 |
| 7,6010 kg m | .0005 |
| 760.10 kg cm | .05 |

| Model TMV5F1000F | |
|------------------|---------------------|
| Maximum Capacity | Steps of Graduation |
| 1,050.0 lb.ft. | .1 |
| 12,600.0 lb.in. | .5 |
| 201,600 oz.in. | 5.0 |
| 1,423.8 N m | .2 |
| 145.10 kg m | .02 |
| 14,511 kg cm | 1.0 |

| Model TMV6F2000F | |
|------------------|---------------------|
| Maximum Capacity | Steps of Graduation |
| 2,050.0 lb.ft. | .2 |
| 24,600.0 lb.in. | 1.0 |
| 393,600 oz.in. | 10.0 |
| 2,779.5 N m | .5 |
| 283.30 kg m | .05 |
| 28,330 kg cm | 2.0 |