Leica Laser Tracker for Hand-Tools





| Specifications (All ac | curacy specifications a | are 2 Sigma valuest) |
|--|--|-----------------------------------|
| Specifications (All ac | | |
| Compatibility T-CAM700 for dynamic 6DOF tracking T-CAM800 for dynamic 6DOF tracking T-Probe for wireless probing T-Scan for hand held scanning | No No Yes, after ADM upgrade Yes Yes, after ADM upgrade Yes Yes, after ADM upgrade Yes | |
| Tracking Maximal target speed At right angles of the laser beam In the direction of laser beam | > 4 m/s > 6 m/s | |
| Max acceleration At right angles of the laser beam In the direction of laser beam | > 2 g Unlimited | |
| Measurement volume · Horizontal · Vertical · Measurement range | ± 235° ± 45° 0 – 40 m | |
| Measuring rate · Measurement rate · Measurement rate output | 3'000 points/sec 1'000 points/sec | |
| Laser Interferometer | | |
| Principle of operation Safety class | single beam heterodyne interferometer 21 CFR: Safety class II IEC / EN: class 2 | |
| Maximal output power | < 0.3 mW/CW | |
| Wave length | 633 nm | (visible) |
| Beam diameter | ≈ 4.5 mm | |
| Beam divergence | no divergence (collimated) | |
| Distance resolution | 1.26 m | |
| Reproducibility of a coordinate | ± 5 micron/m | |
| Absolute accuracy · Wave length stabilization · Initial distance with bird bath | ± 0.5 micron/m ± 10 micron | |
| Angular Measurements Angular resolution | 0.14 arc sec | |
| Repeatability · Near (0 – 2.5 m) · Far (2.5 m to max distance) | ± 12 micron ± 5 micron/m | |
| Absolute accuracy For non moving target (0 – 2.5 m) For non moving target (2.5 to max) For slow moving target For fast moving target | ± 25 micron ± 10 micron/m ± 20 micron/m ± 40 micron/m | |
| Absolute Distance Meter for Automation | | |
| Principle of operation | | Light polarization modulation |
| Resolution | | 1 micron |
| Accuracy | 4) | ± 25 micron |
| Measurement range | able | 1.5 – 40 m |
| Safety class | ade | 21 CFR: class I IEC/EN class 1 |
| Maximum output power | Upgradeable | < 0.5 mW/2 sec |
| Wave length | ے | 780 nm (infrared) |
| Beam diameter | | ≈ 9 mm |
| Beam divergence | | no divergence |
| Ambient Conditions Working temperature (three ranges) | (collimated) | |
| Storage Temperature | +32° to +104° F -10° to +60° +14° to +140° F | |
| Relative humidity | 10 – 90%, (non condensing) | |
| Elevation for operation (air pressure) | 0 – 5′000 m 0 – 16′500 ft | |
| Elevation for storage (air pressure) | 0 – 12'000 m 0 – 40'000 ft | |
| Dimensions and Weight - Sensor Dimensions sensor | 220 mm x 280 mm x 875 mm 8.7" x 11" x 31.5" | |
| Transit axis height | 815 mm (32.1") | |
| Weight | 32.6 kg 71.9 lb | 34.1 kg 75.2 lb |
| Dimensions and Weight - Controller Dimensions controller | 510 mm x 485 mm x 200 mm 20.0" x 19.1" x 7.9" | |
| Weight controller | 17.0 kg (37.5 lb) | |
| Marks of comformity | CB-certified by SEV, CE, (| |
| T/D\000 is seen for the standard day the fellowing HC and | onto: Nr. 4714220 or -! Nr. 5520542 | |

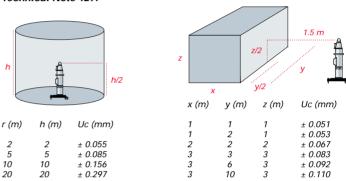
Making Metrology Mobile

New Standards -**More Applications**

The Leica Laser Tracker LTD800 sets new standards in portable coordinate measurement. Based on proven technology used by operators in every major industry, we once again set new standards by introducing the LTD800, which will give you more features and advantages than any other

tracker on the market. Add to this the LTD800's compatibility with an upcoming series of accessories enabling 6DOF tracking; armless, wireless probing; and handheld, non-contact 3D-scanning, and you can go beyond tracking tasks towards a complete PCMM solution, giving you a wider perspective - in all dimen-

Combined measurement uncertainty for length according to ISO "Guide to the Expression of Uncertainty in Measurements" and NIST Technical Note 1297



The Leica LTD800 sets new standards, giving you more features and advantages than any other tracker on the market.

Giving you...

Safer, more convenient and faster

Fast and precise measurement

measurement processes

| leveling device | leveling |
|--|--|
| Measurement range 0 - 40 m | Largest measurement volume ever |
| Fastest measurement cycle in the world: 3'000 pts per second | Highest point density even when measuring fast moving objects |
| Reliable automatic beam capture with absolute distance meter (ADM) | Faster measurement processes |
| 50% more accurate ADM | Highest precision for your measuring processes |
| Extended specifications for environmental conditions | Use of the Leica Tracker under practically all conditions |
| Laser Tracker browser control | Intranet enabled tracker operations enabling 100% digital and remote processes |
| Completely open and programmable client/server interface | Seamless integration with your standard software or with automated processes |
| Proven track record with over 1'000 Leica Tracker in the market | Highest reliability on the market |
| Compatible with the upcoming All-in-One Solution | One large-volume PCMM enabling tracking; armless, wireless probing; and handheld, non-contact scanning |
| Full automation features | Completely automated inspection |

Choose more functionalities... Choose Leica

Featuring...

View finder for remote

and automatic measurements

Highly accurate and user-friendly



processes