

Leica TM6100A

Leica TM6100A Industrial Theodolite



Leica Geosystems' Industrial Theodolites are known around the world for being the most accurate, with the highest angular accuracy of 0.5". These autocollimating theodolites have set the benchmark with unrivalled precision and superb optics. Now Leica Geosystems has set the standard even higher by incorporating more features and benefits into their latest theodolite.

Engineered with leading edge technology

Leica Geosystems has redesigned the direct drive technology for the Leica TM6100A, using the same Piezo technology that is used in the Leica TDRA6000 and the Leica Absolute Tracker AT401. These new direct drives offer the stability of manual drives, the flexibility of fully automated motorized drives and still allow for sub micron level fine positioning. The fine adjustment knobs on the Leica TM6100A have been strategically repositioned to help make measuring in difficult situations easier and because there are no gears with this new technology, the direct drives require almost no maintenance and are nearly silent.

Not only does the Leica TM6100A have a newly designed battery concept, but since the Piezo direct drive technology requires low power consumption, the battery lasts longer. Users can work more than a full day without having to charge or change the battery.

Designed with the operator in mind

Leica Geosystems has added new features to the screen and interface of the Leica TM6100A. The new color touch screen remains clearly visible at all times, allowing operators to take the theodolite to any location. The new intuitive user interface allows users to have minimal training before doing basic measurements and calibrations to the sensor. The interface offers function keys that can be set for specific procedures, six of the 12 function keys are already pre-set with the most commonly used procedures. Leica Geosystems has continued to take industrial measurement to new levels with the all new Leica TM6100A.

Related products:



TPS5000/6000 Service
Perspectives in Technical

Laser Stations

TPS6000/TDRA6000 product family



The Leica Geosystems Industrial Theodolites and Laser Stations of the TPS6000/TDRA6000 series set new standards in portable, large-scale coordinate measurement. Based on proven technology, unrivalled precision and optics, the Leica Geosystems Theodolites have become standard in Aerospace alignment applications.

By incorporating a precision distance meter and automation features, the so-called Laser Station has spread into every industry as a truly large-scale PCMM solution for tooling, inspection and assembly. Their flexibility together with a large choice of both software and hardware solutions give you a wider perspective – in all dimensions.

Select the right product for your needs:



Leica TDRA6000

The new Leica TDRA6000 introduces new and improved technology. With an all new direct drive technology, reflectorless measurements and a typical 3D point accuracy of 0.25 mm at 35 meters, this new generation of Laser Station incorporates Leica Geosystems' long experience developing industrial laser stations.

Gyromat 3000

Precision Gyroscope



Acc. Industrial Theodolites

Overview accessories for
Theodolites

- Fully automatic precision surveying gyroscope
- Fully compatible with all TPS5000 instruments
- Bluetooth compatible for easy data transfer
- Applied for
 - Precision directional measurements, where GPS may not be applied e.g.:
 - Naval shipbuilding
 - Tunnelling

Optical accessories (Eyepiece GOK6 for steep sights up to 72°)



Art. 376 236 Eyepiece GOK6 for steep sights up to 72°, rotatable in vertical plane

Art. 734 514 GFZ3 Diagonal eyepiece for vertical sightings with telescope, compatible with TDM5005 and TDA5005

Art. 377 802 Eyepiece FOK53, 44x magnification at 10m / 30ft

Art. 199 899 Autocollimation eyepiece for TDM5005 and TDA5005

Large variety on optical accessories such as

- Diagonal eyepiece for observations at steep line of sight
- Eyepieces with different magnification
- Autocollimation eyepiece for alignment tasks (built-in TM500A)
- Fully compatible with all TPS5000 instruments

DL2 Diode Laser Pointer

Eyepiece



A universal non-contact pointing and targeting device.

Art. 574 822

Visualizes the line-of-sight by truly non contact means

Fully compatible with all TPS5000 instruments

Applied for

- Marking points
- Digitizing
- Setting-out points by design values
- Positioning and alignment
- Locating reflectors in remote control mode