

API OMNITRAC 2

THE API OMNITRAC2 (OT2) WIRELESS LASER TRACKER IS THE IDEAL MEASURING INSTRUMENT FOR OPTIMUM PORTABILITY. ITS COMPACT SIZE AND CORDLESS DESIGN MAKES IT POSSIBLE TO MEASURE IN CONFINED ENVIRONMENTS WHERE OTHER SYSTEMS CANNOT.

- Portability and Flexibility
- Fully Integrated Unit
- On-Board Wireless Technology
- Absolute Distance Measurement (ADM)
- Battery Operation
- Autolock
- Virtual Level
- Environmental Compensation
- Service and Support


**AUTOMATED
PRECISION**


API Omnitrac 2 Laser Tracker	
Range of Measurement - Linear Range (Diameter)	50 m (100 m) 80 m (160 m) optional
Angular Performance Minimum Measurement Distance Azimuth Range Elevation Range Internal Level Range	0m ± 320° (640° end to end) -59° to 79° ± 2°
Volumetric Accuracy	± 15 µm + 5 µm/m*
Axial Angular Accuracy Maximum Angular Speed Maximum Angular Acceleration Internal Level Accuracy	3.5 µm/m** 180° / sec 180° / sec ² ± 2 arcseconds
Linear Performance - Accuracy	± 15 µm or 0.7 µm/m** (whichever is greater)
Autolock Performance - Field of View Autolock Performance - Acquisition Range	30° (diagonal) 2 m to 40 m
Environmental - Operating Temperature Environmental - Relative Humidity Environmental - Altitude	-10° C to 45° C 10-95% non-condensing -700 m to 3000 m

In-Line Distance Measurement	
Range	MPE
2 to 5 m	0.015 mm
2 to 10 m	0.015 mm
2 to 20 m	0.015 mm
2 to 50 m	0.034 mm
2 to 80 m	0.055 mm

Scale Bar Measurement	
Range	MPE
2 m	0.035 mm
5 m	0.057 mm
10 m	0.092 mm
20 m	0.163 mm
50 m	0.375 mm
80 m	0.587 mm

The ASME B89.4.19-2006 standard prescribes a series of tests for evaluating the performance of spherical measurement systems. These values represent the Maximum Permissible Error (MPE) between a verified Scale Bar and the expected performance of the instrument.