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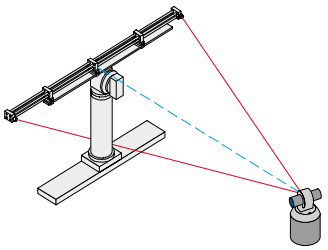
FARO® Laser Tracker ION™

Point-to-Point Typical Accuracy***

Horizontal Scale Bar Measurement (2.3 m)		
Range (m)	ADM (mm)	IFM (mm)
2	0.022	0.021
5	0.032	0.032
10	0.049	0.049
20	0.085	0.085
30	0.120	0.120
40	0.156	0.156
50*	0.191	0.191
55*	0.209	0.209

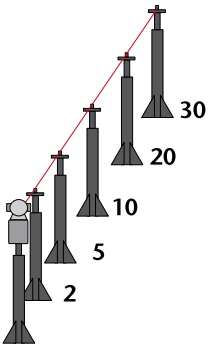


System Specifications

Dimensions
- **Head size:** 311mm (W) x 556mm (H)
- **Head weight:** 17.7kg (19.5kg w/IFM option)
- **Controller size:** 282mm (L) x 158mm (D) x 214mm (H)
- **Controller weight:** 5.2kg

Range
- **Horizontal envelope:** ± 270°
- **Vertical envelope:** +75° to -50°
- **Minimum working range:** 0 metres
- **Maximum working range:** 55m with select targets
  40m with standard 1.5" & 7/8" SMRs
  30m with standard 1/2" SMR

In-Line Distance Measurement			
Length (m)	Distance (m)	ADM (mm)	IFM (mm)
2 - 5	3	0.009	0.003
2 - 10	8	0.011	0.005
2 - 20	18	0.015	0.009
2 - 30	28	0.019	0.013
2 - 40	38	0.023	0.017
2 - 50*	48	0.027	0.021
2 - 55*	53	0.029	0.023



Environmental
- **Altitude:** -700 to 2,450 metres
- **Humidity:** 0 to 95% non-condensing
- **Operating temperature:** -15°C to 50°C

Laser Emission**

633-635 nm Laser, 1 milliwatt max/cw.
Class II Laser Product

Distance Measurement Performance***

Agile ADM
- **Resolution:** 0.5µm
- **Sample rate:** 10,000/sec
- **Accuracy:** 8µm + 0.4µm/m
- **R0 Parameter:** 8µm

Optional Interferometer
- **Resolution:** 0.158µm
- **Accuracy:** 2µm + 0.4µm/m
- **Maxim. radial velocity:** 4m/sec
- **R0 Parameter:** 8µm

Angle Measurement Performance***
- **Angular accuracy:** 10µm + 2.5µm/m
- **Maximum angular velocity:** 180°/sec
- **Optional Precision Level Accuracy:** ± 2 arcseconds

World's Most Accurate Large Volume Laser Tracker

The FARO Laser Tracker ION is an extremely accurate, portable coordinate measuring machine that enables you to build products, optimize processes, and deliver solutions by measuring more quickly, simply and precisely than previously possible. The ION is the most accurate laser tracker available based on the most common types of measurement applications where the angular error of the instrument is predominant. It also features a longer measurement range, lighter weight, and contains the fastest, most sophisticated distance measuring system: Agile Absolute Distance Meter (aADM).

Common Applications

Alignment: Real-time feedback of object positioning ▪ **Installation:** Lay out / level machine foundation ▪ **Part Inspection:** Digital record of actual vs nominal data ▪ **Tool Building:** Set up and inspect tools with only one person ▪ **Reverse Engineering:** Acquire high accuracy digital scan data

New service inspection and alignment real time more information please contact

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