

Advanced Test Equipment Corp. www.atecorp.com 800-404-ATEC (2832)





LEICA ABSOLUTE TRACKER AT960

ASME B89.4.19-2006 Specifications

Some laser tracker producers do not publish their MPE values as specifications. Instead they use their typical accuracy which is stated as half of their MPE values. To be able to compare specifications side by side the Leica Absolute Tracker AT960 specifications have been converted to reflect both MPE and typical (or half MPE) values.



DATA SHEET



IN-LINE DISTANCE MEASUREMENT

Range (m)	ADM (mm)	IFM (mm)	ADM (mm)	IFM (mm)	
	MPE values		Typical values		
2 to 5	0.014	0.001	0.007	0.001	
2 to 10	0.014	0.003	0.007	0.001	40
2 to 20	0.014	0.005	0.007	0.003	35 30
2 to 30	0.014	0.008	0.007	0.004	20
2 to 35	0.014	0.010	0.007	0.005	10
2 to 40	0.014	0.011	0.007	0.006	5 2
2 to 60	0.014	0.017	0.007	0.009	2
2 to 80	0.014	0.023	0.007	0.012	



ASME B89.4.19-2006 SPECIFICATIONS

All specifications are calculated per the ASME B89.4.19 standard. Information is from the most recent Leica Absolute Tracker AT960 specifications. To allow for comparison, variation in air temperature is not included.

HORIZONTAL SCALE BAR MEASUREMENT

Range (m)	ADM (mm)	IFM (mm)	ADM (mm)	IFM (mm)
	MPE values		Typical values	
2	0.036	0.036	0.018	0.018
5	0.063	0.063	0.032	0.032
10	0.106	0.106	0.053	0.053
20	0.191	0.191	0.096	0.096
30	0.276	0.276	0.138	0.138
35	0.318	0.318	0.159	0.159
40	0.361	0.361	0.180	0.180
60	0.530	0.530	0.265	0.265
80	0.700	0.700	0.350	0.350

PERFORMANCE

	MPE values	Typical values	
Angle Performance Angular accuracy	± 15 μm + 6 μm/m	± 7.5 μm + 3 μm/m	
Distance Performance ADM Accuracy	± 10 µm	± 5 µm	
Interferometer Accuracy	± 0.4 μm + 0.3 μm/m	± 0.2 μm + 0.15 μm/m	
R0 Parameter	± 3 µm		

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