PHAP ALPHAP

MEASURING ARM





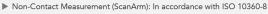
ALPHA accuracy specifications

Contact Measurement(Arm)										
Measurement Range	¹ SPAT		² Euni		³ P size		⁴ P form		⁵ Ldia	
	6Axis	7Axis	6Axis	7Axis	6Axis	7Axis	6Axis	7Axis	6Axis	7Axis
1.5m	0.012mm	_	0.022mm	_	0.007mm		0.012mm	_	0.024mm	_
2.0m	0.016mm	0.018mm	0.024mm	0.026mm	0.008mm	0.010mm	0.015mm	0.019mm	0.030mm	0.038mm
2.5m	0.018mm	0.020mm	0.026mm	0.028mm	0.009mm	0.011mm	0.018mm	0.022mm	0.032mm	0.042mm
3.0m	0.026mm	0.032mm	0.038mm	0.048mm	0.012mm	0.016mm	0.025mm	0.032mm	0.045mm	0.072mm
3.5m	0.036mm	0.045mm	0.052mm	0.061mm	0.016mm	0.020mm	0.034mm	0.039mm	0.060mm	0.088mm
4.0m	0.045mm	0.055mm	0.063mm	0.076mm	0.020mm	0.026mm	0.038mm	0.044mm	0.077mm	0.098mm
4.5m	0.055mm	0.065mm	0.080mm	0.095mm	0.028mm	0.036mm	0.050mm	0.065mm	0.101mm	0.122mm

SPAT Single Point Articulation Test

▶ All values represent MPE (Maximum Permissible Error)

Contact Measurement (Arm): In accordance with ISO 10360-12













Non-Contact Measurement(ScanArm)						
Measurement	System Accuracy					
Range	HD	SD				
2.0m	0.038mm	0.043mm				
2.5m	0.042mm	0.048mm				
3.0m	0.047mm	0.055mm				
3.5m	0.060mm	0.068mm				
4.0m	0.074mm	0.080mm				
4.5m	0.120mm	0.125mm				

Complies with the following EC Directives: 2014/53/EU Radio Equipment Directive;

2014/32/EU Measuring Instruments Directive;

Shock and Vibrations Testing per International Electrotechnical Commission (IEC) Standard: IEC 60068-2-6;

Extreme Temperature Cycling (-20°C to 60°C). Based on: IEC 60068-2-1.





Laser Line Probe Specifications

ltem	HD	SD			
Accuracy	±15μm(2 <i>σ</i>)	±28μm(2 <i>σ</i>)			
Stand-off	115mm				
Effective Scan Width	Near Field 80 mm; Far Field 150 mm				
Points Per Line	Maximum 4,000 points/line				
Scan Rate	1.2 Million Points Per Second				
Laser	Class 2				
Weight	536g				

Accuracy and Repeatability Specified at Full Field of View (FOV)

Arm Hardware Specifications

Operating temp range: 5°C - 40°C (41°F - 104°F)

Temperature rate: 3°C/5min (37.4°F/5min)

Operating humidity range: 0 - 95%, non-condensing

Power supply: Universal worldwide voltage; 100-240VAC; 50/60Hz

Battery life: 5h+ for one battery; 10h+ for two batteries (base on contact measurement)

Data transmission mode: USB or Wi-Fi

Weight (range): 8.8kg to 10.6kg

² Euni Distance Error between two points comparing measured versus nominal values

³ PSIZE Sphere Probing Size Error comparing measured versus nominal values

⁴ PFORM Sphere Probing Form Error

⁵ LDIA Sphere Location Diameter Error (Diameter of the spherical zone containing the centers of a sphere measured from multiple orientations)