

# PMT<sup>®</sup> ALPHA<sup>P</sup>

## MEASURING ARM



- ▶ Internal counter balancing
- ▶ Double high-energy batteries
- ▶ Perfect equi-arm design
- ▶ High-Speed WiFi performance
- ▶ Aerospace grade carbon-fiber material
- ▶ High accuracy

## ALPHA<sup>P</sup> 6 axis accuracy specifications

测量范围	<sup>1</sup> SPAT	<sup>2</sup> E <sub>UNI</sub>	<sup>3</sup> P <sub>SIZE</sub>	<sup>4</sup> P <sub>FORM</sub>	<sup>5</sup> L <sub>DIA</sub>
1.5m	0.012mm	0.022mm	0.007mm	0.012mm	0.024mm
2.0m	0.016mm	0.024mm	0.008mm	0.015mm	0.030mm
2.5m	0.018mm	0.026mm	0.009mm	0.018mm	0.032mm
3.0m	0.026mm	0.038mm	0.012mm	0.025mm	0.045mm
3.5m	0.036mm	0.052mm	0.016mm	0.034mm	0.060mm
4.0m	0.045mm	0.063mm	0.020mm	0.038mm	0.077mm
4.5m	0.055mm	0.080mm	0.028mm	0.050mm	0.101mm



▶ All values represent MPE (Maximum Permissible Error)

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

- <sup>1</sup> SPAT Single Point Articulation Test
- <sup>2</sup> E<sub>UNI</sub> Distance Error between two points comparing measured versus nominal values
- <sup>3</sup> P<sub>SIZE</sub> Sphere Probing Size Error comparing measured versus nominal values
- <sup>4</sup> P<sub>FORM</sub> Sphere Probing Form Error
- <sup>5</sup> L<sub>DIA</sub> Sphere Location Diameter Error (Diameter of the spherical zone containing the centers of a sphere measured from multiple orientations)

## Arm Hardware Specifications

- Operating temp range :** 0°C - 40°C (32°F - 104°F)
- Temperature rate :** 3°C/5 (37.4°F/5 Max )
- Operating humidity range :** 0 - 95%, non-condensing
- Power supply :** Universal worldwide voltage; 100-240VAC; 50/60Hz
- Battery Endurance :** 8+hours ( 1 piece ); 16+hours ( 2 pieces)
- Data transmission mode :** USB or Wi-Fi
- Weight (range) :** 8.8kg to 10.6kg

Meets ISO9001 requirements;  
 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;

