

Motionics Wireless Angle Measurement Devices

Angle Measurement Devices Comparison Table

Product ID



Product ID	W4A	W4D	BPRO-L	BPRO-S	WDL	BA
Description	Wireless transmitter for Mitutoyo 950-318, PRO 3600 protractors	Wireless transmitter dongle for Mitutoyo 950-318, PRO 3600 protractors	Single-axis 360° wireless protractor - 6" level type	Single-axis 360° wireless protractor - cube type	Two-axis high-precision wireless level	Two-axis compact wireless angle sensor
Sensor Type	Capacitive Sensor*	Capacitive Sensor*	Accelerometer	Accelerometer	Accelerometer	Accelerometer and Gyroscope
Specifications						
Dimensions	4.09 x 2.20 x 0.91 in	1.97 x 0.98 x 0.61 in	6 x 2.4 x 1.2 in	2.13 x 2.13 x 0.91 in	6 x 2 x 1.5 in	1.58 x 1.58 x 0.79 in
Resolution	0.01° (0° to 9.99°), 0.1° (10° to 90°) (Mitutoyo 950-318)		0.05°		0.001°	0.1°
Accuracy	0.05° (0° to 10°), 0.2° (10° to 80°), 0.1° (80° to 90°) (Mitutoyo 950-318)		0.2°		±0.002° (0-0.5°), ±0.004° (other angles)	2°
Measurement Range	360° (90°x4) (Mitutoyo 950-318)		360° (90° x 4)		0 - ±2°	360° (2 axes)
Data Transmission	Bluetooth Low Energy					
Wireless Data Rate	2 samples/sec		10 samples/sec		2 samples/sec	50 samples/sec
Transmission Range	20 m (indoors)/ 30 m (outdoors)				15 m	20 m
Working Temperature	0-50 °C				-10-50 °C	0-50 °C
Power Supply	Rechargeable 5V MicroUSB	Powered by battery in protractor	Rechargeable 5V MicroUSB		2x AA	Rechargeable 5V MicroUSB
Battery Life	30 hours	120 hours	30 hours		12 hours	10 hours
Hardware						
Data Trigger Switch	✓	—	—	—	—	—
Foot Switch Connector Port (2.5mm)	✓	—	—	—	—	—
USB Charging Kit	✓	—	✓	✓	—	✓
BLE USB Dongle	Optional	Optional	Optional	Optional	Optional	Optional
Free Software						
iOS iPhone/iPad/Apple Watch	✓	✓	✓	✓	✓	✓
Android 4.3 and after	✓	✓	✓	✓	✓	✓
Windows PC**	✓	✓	✓	✓	✓	✓

* Based on Mitutoyo 950-318 and PRO 3600

** Requires BLE USB dongle