PRODUCT CATALOG

No. 118





Smart Measurement Tools and Wireless Instrumentation Rev 20 May 2025

ABOUT MOTIONICS, LLC

Motionics, LLC specializes in instrumentation, metrology, machinery diagnostics, condition monitoring, and advanced vibration analysis of rotating machines. Motionics' products include wireless measurement tools, wireless power monitoring devices, software for online diagnosis of rotating machinery using vibration and electrical signals, model-based fault detection and diagnostics, smart solutions for vibration monitoring, and rotor balancing.

This catalog is Motionics' commitment to provide relevant product information to our customers and partners. Motionics continues pushing the boundaries of industrial measurement technology.

Thank you,

Motionics, LLC

Table of Contents	
Overview and Software	А
Wireless Measurement Tools	В
Custom Application Kits	С
Vibration Analysis and Rotor Balancing	D
Wireless Power Measurement	Е



info@motionics.com



www.motionics.com

Copyright © 2022 Motionics, LLC Motionics, LLC 8500 Shoal Creek Blvd. Austin, Texas 78757 Phone: +1 (205) 264 – 1896 https://store.motionics.com

Product Selection Guide

Wireless Measurement





Motionics specializes in bringing smart solutions to industrial metrology applications. We provide external transmitters, compatible with a wide range of instruments, to add wireless data transmission capability to your existing gages. We also offer standalone Bluetooth dial indicators, angle sensors, and pressure sensors for various applications. With the help of our software for iOS, Android, Windows and LabVIEW, measurement will be safer, more efficient, and error-free.



Wireless Multi-Gage Measurement Solution - iOS, Android, & Windows



Measurement Calculator with Custom Equation - iOS

			A B 20 R
ID Measurement	Hole Diameter/Groove Width	OD Measurement Using 2 BlueDials	Outside Diameter Measurement
A = 0.03 mm Enter Equation: 00 = 125 - A 124,97mm	A = 12 mm Enter Equation: $D = -2 \times \tan(\theta) \times A$ 15.03 mm	A = 0.01mm B = 0.02mm Enter Equation: OD = 123 + A + B 125.03mm	A = 0.03 mm Enter Equation: $2R \sin(\theta) = \sin(\theta) - 1 \times A$ 125.03mm

Motionics, LLC 8500 Shoal Creek Blvd. Austin, TX 78757 www.motionics.com info@motionics.com The software & hardware can be customized. Contact Motionics for details.

© 2022 Motionics, LLC. All rights reserved.

MultiGage Software (Windows)



Wireless Measurement



MultiGage for Windows is a data collection tool for users to wirelessly connect, read, and record readings from Motionics wireless measurement devices on their Windows PC desktop or laptop. The software can simulate keyboard input, allowing data to be directly entered into any software product that accepts keyboard entry, such as Excel, text documents, and most SPC software. You can connect to multiple devices at once, up to 8 per USB dongle.



Multiple device connectivity and simultaneous data collection



Real-time data plotting; can plot multiple sensors, assign sensors to each axis



Moveable, resizable gage panels to create a unique dashboard



Multiple dongles can be added for more devices



Options for external hand or foot switch



GO/NG judgment with green/red color indication



Each gage is assigned its individual panel for display and control



Continuous data recording and single reading capture options



Peak hold mode for Max, Min, TIR display



Analog probe meter with adjustable range for reading display



Multiple continuous recording rates available

	_	- 1
	_	=
U		

Local database for data saving and management





Motionics, LLC 8500 Shoal Creek Blvd. Austin, TX 78757 www.motionics.com info@motionics.com The software & hardware can be customized. Contact Motionics for details. Scan to see product page



MultiGage Software (Windows)

Wireless Measurement





MultiGage has a variety of features to make wireless measurement reading and recording easy and efficient.

We're always adding new features to MultiGage, both independently and by client request. If there's a feature you would like to implement for your application, you can get in touch with us to discuss details.

(205) 264-1896 info@mot

info@motionics.com







Custom Dashboard Panels

With MultiGage's optional custom dashboard feature, you can create and save totally customizable gage panels and dashboards.

MultiGage on its own allows you to rearrange and resize gage panels on your dashboard, but this feature allows you to do even more.

You can add, remove, resize, and rearrange each individual component of a gage panel, such as the reading display, analog probe meter, battery/signal displays, clear, zero, and settings buttons, reading plots, and min, max, and TIR displays.

You can also change the style of individual elements on the gage panel and the panel itself by altering their color, border, margin, and corner radius.

You can also set a custom background for your dashboard, such as a drawing or machine photos, to create a more concrete visualization of data collection process and display additional information or context for your gages for easy reading.

These custom dashboard panels allow you to manipulate MultiGages' interface to fit your application exactly. To find out more and enable this feature, feel free to contact us at info@motionics.com.

Reading in LabVIEW



Motionics' Dial Reading VI is available to wirelessly connect and read from Motionics WiMER and BlueDial in LabVIEW on PC. The VI covers all the procedures to search nearby devices, pair, and update readings. Users can freely add more controls for data collection and analysis, customize the VI for a specific application, or integrate it into an existing software.

Motionics, LLC 8500 Shoal Creek Blvd. Austin, TX 78757 www.motionics.com info@motionics.com The software & hardware can be customized. Contact Motionics for details.





Wireless Reading on iOS and Android Devices with MultiGage®



MultiGage Reader is able to connect to multiple Motionics Bluetooth measurement devices (14 on iOS, 8 on Android) and receive readings from all of them at the same time. Each device will be assigned an individual panel to display measurement reading, max, min, and TIR.

MultiGage Reader provides two options for data recording: continuous recording at up to 10 samples/sec, or one-by-one capturing through button tapping. Recorded data can be plotted in a user-interaction-enabled graph, saved in a database, and exported as a CSV file for further assessment.

Additionally, there are many more innovative features in the app, such as analog probe meter, cloud data streaming, custom calculator, and so on, to make measurement faster and easier.

Features:

- Simultaneous reading of multiple devices
- Data plotting on iPhone/iPad/Android
- Continuous or single data point recording
- Max, Min, TIR measurement
- Remote zeroing from the app
- GO/NG judgment with green/red color indication
- Real-time cloud data streaming worldwide (iOS only)
- Custom formula calculator (iOS only)
- Large analog probe meter with adjustable range
- Data saving in local database
- Data export in CSV via email and cloud drives
- Apple Watch support



MultiGage is also available with cloud streaming for remote monitoring. Find out more at motionics.com/multigage-cloud/

Motionics, LLC 8500 Shoal Creek Blvd. Austin, TX 78757 www.motionics.com info@motionics.com The software & hardware can be customized. Contact Motionics for details. Scan to see

MultiGage Cloud

Industrial Remote Monitoring





REMOTE GAGE MONITORING IN REAL TIME

Motionics' MultiGage Cloud browser-based platform connects Bluetooth wireless sensors to the Internet, allowing real-world data tracking from anywhere. MultiGage Cloud is the ultimate industrial remote monitoring solution.

By connecting Bluetooth gages to a MultiGage Cloud Gateway, you can view real-time readings from anywhere by logging onto the MultiGage Cloud portal on any web browser.



AUTOMATIC DATA RECORDING

Adjust data transmission rate in the application



SMART ALERTS AND NOTIFICATIONS

SMS and email



CUSTOMIZABLE DISPLAY

Customize readouts with rearrangeable, resizeable widgets



REMOTE SYSTEM UPDATES

Over-the-air gateway and firmware updates





MULTI-SENSOR CONNECTIVITY

Connect to multiple sensors, sensor types at once



MONITOR ASSETS AT DIFFERENT LOCATIONS

Connect to multiple gateways



\subseteq

DATABASE INTEGRATION

Call function to read data from other platforms



LAN, WIFI, & LTE CONNECTIVITY

Various Internet connection options for gateway

ONE GATEWAY, INFINITE POSSIBILITIES.

MultiGage Cloud can connect to a variety of different wireless sensors. If you're not sure that your sensor or application is compatible with MultiGage, be sure to get in touch and we can find the right remote monitoring solution for you!



OR GO TO WWW.MOTIONICS.COM/CLOUD TO FIND OUT MORE!

Motionics, LLC 8500 Shoal Creek Blvd. Austin, TX 78757 www.motionics.com info@motionics.com The software & hardware can be customized. Contact Motionics for details.

© 2022 Motionics, LLC. All rights reserved.



DATA EXPORT

Export data as a CSV



MULTI-USER ACCESS

Manage user permissions



AVAILABLE FOR ANY DEVICE

iOS, Android, Windows, & Mac. Use any browser with no installation.



REMOTE SENSOR CONTROLS

Scan, connect, and disconnect remotely



Software Applications

Wireless Measurement





MultiGage Reader is an app developed for users to simultaneously connect and read from multiple Motionics wireless measurement devices on an iOS device.



MultiGage Reader is an app developed for users to simultaneously connect and read from multiple Motionics wireless measurement devices on an Android device.



MultiGage Multiple Wireless Measurement Devices Reader

Windows

MultiGage Reader is a Windows application developed for users to simultaneously connect and read from multiple Motionics wireless measurement devices on a Windows PC.



This app works with our Wireless Crankshaft Deflection Test package to wirelessly capture sensor readings at 5 testing positions on the crankshaft and automatically calculates vertical and horizontal deflection.



Runout works with our Wireless Runout Kit, synchronizes displacement and angle measurements, and provides a convenient tool to inspect rotor runout on iPad.



MultiGage Cloud is a browser-based remote monitoring application developed for users to simultaneously connect and read from multiple Motionics wireless measurement devices.



This software works with our Wireless Crankshaft Deflection Test package to wirelessly capture sensor readings at 5 testing positions on the crankshaft and automatically calculates vertical and horizontal deflection.



This app records deflection and pressure during pile load tests using our wireless indicator and pressure sensor.

Motionics, LLC 8500 Shoal Creek Blvd. Austin, TX 78757 www.motionics.com info@motionics.com The software & hardware can be customized. Contact Motionics for details. Scan to see product page

Software Applications

Vibration, Balancing, & Alignment





iVibraMeter

Real-Time Overall Vibration Measurements and Severity Judgement

iPad & DAQ System

Wibra Meter provides real-time overall vibration measurements and severity judgment based on different standards, using the iPad with our DAQ system.



with DAQ input iPhone & DAQ System

Vibra Test Pro

Real-Time vibration

analysis on iPhone/iPad

VibeSpectra

A Reference Guide for

Vibration Analysis

iPhone/iPad/iPod Touch/Android

Vibra Test Pro is an iOS vibration analysis tool featuring ISO 10816 vibration meter, FFT spectrum viewer, raw signal recorder and test data manager.



Vibra Test Vibration Severity Test of Rotating Machinery Based on ISO 10816-03

iPhone/iPad

Vibra Test is an iSO 10816 based vibration meter to conduct vibration severity tests on rotating machinery.



VibraPad Real-Time Vibration Analysis & Training App

iPad & DAQ System

VibraPad is a vibration analysis tool, specially designed for determining the most common vibration frequencies of machine faults.



VibeSpectra is a reference guide for rotating machinery predictive maintenance, including spectra for various machine faults.



VibraCalc Vibration Frequencies

Calculations of Rotating Machinery

iPhone/iPad

Vibra Calc calculates vibration frequencies of induction motors, gears, rolling element bearings, pumps, fans, journal bearings, and belts.



VibraUnits Vibration Units Conversion Application

iPhone/iPad/iPod Touch

VibraUnits is a vibration units conversion calculator. It converts typical vibration amplitude and frequency units.



REBvibe Calculates Rolling Element Bearings' Fundamental Frequencies

iPhone/iPad/iPod Touch

REBvibe calculates vibration fundamental frequencies of roller element bearings from its geometry or model.



VibeSenseRB Single-Plane & Two-Plane

Rotor Balancing with Wireless Sensor

iPad & Wireless Sensor

VibeSenseRB connects to VibeSense wireless rotor balancer and guides user to perform single-plane & two-plane rotor balancing.





iPad & DAQ System

Shale Shaker analyzes the vibration and motion of an industrial shale shaker.



MotorVibe Real-Time Overall Vibration

Measurements and Severity Judgement

iPad & DAQ System

Motor Vibration is custom made for Siemens to conduct vibration tests.



SummitVibe

Real-Time Overall Vibration Measurement and Severity Judgement

iPad & DAQ System

Summit Vibe is custom-made for Summit to conduct vibration tests.



BalanceVision A Tool that Uses the Camera

to Find the Angular Positions on a Rotor During Balancing

iPhone/iPad/iPod Touch

BalanceVision is designed to use a camera to help the user locate angular positions on a rotor in balancing procedures.



iRotorBalancer Single-Plane & Two-Plane Real-Time Rotor

Real-Time Rotor Balancing App

iPad & DAQ System

iRotorBalance uses different methods for calculating the correction weights for rotor balancing in single-plane or 2-planes.



iRotorBalance Application for Rotor

Balancing Calculations

iPhone/iPad/iPod Touch

iRotorBalance is a technical tool for calculating the correction weights for rotating machinery balancing in a single plane or two planes.

Motionics, LLC 8500 Shoal Creek Blvd. Austin, TX 78757 www.motionics.com info@motionics.com The software & hardware can be customized. Contact Motionics for details.

© 2022 Motionics, LLC. All rights reserved.



A8

Software Applications

Machining & Other Tools





ThreadKing provides all the information for Metric/UN taps, Course/Fine threads, thread dimensions, drill sizes for cutting/forming taps, and much more.



4Machining is a quick machining reference tool, providing turning/milling/drilling speed & feed calculation, thread and drill size charts, and CNC G&M codes to machinists.



iGearBox Training and Learning Tool for Regular and Planetary

Gearboxes

iPhone/iPad/iPod Touch

iGearbox is the ideal tool for training and learning the basics of regular and planetary gearboxes. It also calculates gear ratio and gear speeds.



iAlignCalc is for machine shaft alignment, including several alignment methods and a thermal growth calculator.



GCoder is a handy tool to generate CNC G-Code for various OD & ID machining processes.



Strobe Light A Tool that Turns an iPhone into a Strobe Light to Measure Machine RPM

iPhone

Strobe Light makes your iPhone a strobe light tachometer to measure the speed of rotating machines.



iWindTurbine Training and Learning Tool for Regular and Planetary Gearboxes

iPhone/iPad/iPod Touch

iWindTurbine calculates the estimated output power of wind turbines, based on its geometry and basic wind parameters.



iAlignTest provides common reference tables, specifications and charts for shaft alignment tolerance.

Motionics, LLC 8500 Shoal Creek Blvd. Austin, TX 78757 ww.motionics.com_info@motionics.com The software & hardware can be customized. Contact Motionics for details.



BlueDial Digital Dial Indicator With Integrated Bluetooth Low Energy Transmitter

	Blue	Dial BlueDial-LT						
BlueDial Comparison Table							•	P B
Product ID	BD10-783	BD10-793	BDLT-102	BDLT-103	BDLT-202	BDLT-203	BDLT-302	BDLT-402
Specifications								
Measurement Range		0. 12.7	5″ mm		1 25r	″ nm	2″ 50mm	4″ 100mm
Resolution	0.0005" 0.01mm	0.0001" 0.001mm	0.0005" 0.01mm	0.00005" 0.001mm	0.0005" 0.01mm	0.00005" 0.001mm	0.0 0.01	005″ mm
Accuracy	0.0008 in	0.00012 in	±0.001 in	±0.0002 in	±0.001 in	±0.0002 in	0.00)1 in
Wireless Data Rate	10 sam	ples/sec		8 samp	oles/sec		10 sam	ples/sec
Transmission Range			2	0 m (indoors)/	30 m (outdoor	·s)		
Stem Size	3/	'8″		8 r	nm		3	/8″
Tip Thread	4-48	UNF		М	2.5		4-48	UNF
Battery		Rechargable						
Battery life	60 h	iours	50 hours					
Mounting Options	Stem* Stem/Ba					Stem/Back lug		
Hardware	Mitu	tovo						
Dial Indicator	543-	793			Moti	onics Dial		
Bluetooth Transmitter				On back				Top-mounted
USB Charging Kit	 Image: A start of the start of			 ✓ 			 Image: Second sec	
iOS inhana (inhad (Apple Webs)								
Windows PC**								
MultiGage Cloud								
LabVIEW**Customizable			-	-	-	-	-	-
Optional Accessories***				1	1	1		
BLE USB Dongle	Ø	Ø	ø	Ø	Ø	e	9	Ø
Pelican Case 1010	Ø	Ø	Ø	Ø	-	-	-	-
Pelican Case 1040	Ø	Ø	Ø	Ø	Ø	Ø	-	-
Pelican Case 1120	 Image: A start of the start of	 Image: A start of the start of	 Image: A start of the start of	 Image: A start of the start of	 Image: A start of the start of		-	-
Mitutoyo 7033B Base	Ø	Ø	Ø	Ø	 Image: A start of the start of	 Image: A start of the start of	Ø	 Image: A start of the start of
NOGA DG61003 Base	Ø	 Image: A start of the start of	Ø	 Image: A start of the start of	Ø	 Image: A start of the start of	Ø	Ø
Extension Rod 4-48UNF 1-6" one each	 Image: A start of the start of	 Image: A start of the start of	-	-	-	-	 Image: A start of the start of	 Image: A start of the start of

* Back lug mounting available upon request

** Requires BLE USB dongle

***Purchase separately; refer to Accessories page for additional information

Motionics, LLC 8500 Shoal Creek Blvd. Austin, TX 78757 www.motionics.com info@motionics.com

The software & hardware can be customized. Contact Motionics for details. Scan to see product page





BlueDial Bluetooth Dial Indicator



SPC data BlueDial is a Mitutoyo indicator with an integrated output Power/Charging Bluetooth transmitter on the back. Not only does LED indicator BlueDial maintain high-accuracy measurement from Mitutoyo, but it also brings the convenience of wireless communication. It's a new solution to get rid of the hassle of Î wires/cables and improves efficiency and safety in deflection measurement applications. Features: Integrated Bluetooth Low Energy technology . LCD Display Multiple platform support (iOS, Android, PC and LabVIEW) Bluetooth Micro-USB Transmitte Continuous and single mode data recording charging port Rechargeable battery (60-hour life with a single charge) 3/8 inch diameter Multiple-device connectivity Remote cloud monitoring with MultiGage Cloud** Multi-platform Bluetooth Rechargeable Multi-gage capability Continuous recording Data savino Remote cloud monitoring** and plotting Low Energy software capability Model BD10-793 BD10-783 .5 in/12.7 mm Measurement Range 0.0005 in/0.01 mm 0.0001 in/0.001 mm Resolution 0.0008 in 0.00012 in Accuracy Wireless Data Rate 10 Hz Transmission Range 20 m (indoors)/30 m (outdoors) Working Temperature 0 - 50°C Rechargeable Battery 400 mAh Battery Life 60 hrs 5 VDC USB Charging

More Features with FREE MultiGage Software*

- Simultaneous reading of multiple devices .
- Data plotting on iPhone/iPad/Android
- Continuous or single data point recording
- Max, Min, TIR measurement
- Remote zeroing from the app
- GO/NG judgment with green/red color indication
- Custom formula calculator
- . Large analog probe meter with adjustable range
- Data saving in local database
- Data export in CSV via email and cloud drives
- Keyboard entry to Excel or SPC software on PC
- Apple Watch support

**MultiGage Cloud 🗁

Users can view and record readings from anywhere with our browser-based remote monitoring platform, MultiGage Cloud. Create custom dashboards, set alerts, receive notifications, and record readings remotely by connecting gauges wirelessly to our Cloud gateway. Connect up to an unlimited amount of sensors at once. MultiGage Cloud is a paid platform.

Motionics, LLC 8500 Shoal Creek Blvd. Austin, TX 78757 www.motionics.com_info@motionics.com The software & hardware can be customized. Contact Motionics for details.

© 2022 Motionics, LLC, All rights reserved.



802X

3.5837

MMUMMM

72

Dél

1 55

*Availability of features varies between apps/platforms.

B2

BlueDial LT BlueTooth Dial Indicator Lite



BlueDial-LT is a dial indicator with integrated Bluetooth transmitter on the back. It integrates a high-accuracy dial indicator with Bluetooth Low Energy data transmitter. All the readings from one or multiple BlueDial-LTs will be wirelessly collected and displayed on a smart device or PC.

Features:

- Integrated Bluetooth Low Energy technology
- Multiple platform support (iOS, Android, PC) •
- Continuous and single data recording
- Rechargeable battery (50-hour life with a single charge)
- Multiple-device connectivity •





32 / 30

nge





1-3/4" LCD display

8mm diameter

stem



and plotting

3.30

Power/Charging LED Indicato

Bluetooth trans

mitter





Micro-USB

charging port

	Model	BDLT-102	BDLT-103	BDLT-202	BDLT-203	BDLT-302	BDLT-402*
	Measurement Range	.5 in/12.7 mm		1 in/25.4 mm		2 in/50.8 mm	4 in/101.6 mm
	Resolution	0.0005 in/ 0.01 mm	0.00005 in/ 0.001 mm	0.0005 in/ 0.01 mm	0.00005 in/ 0.001 mm	0.0005 in/ 0.01 mm	0.0005 in/ 0.01 mm
	Accuracy	±0.001 in	±0.0002 in	±0.001 in	±0.0002 in	±0.001 in	±0.001 in
	Wireless Data Rate		8	Hz		10Hz	10Hz
	Transmission Range			20 m (indoor	s)/30 m (outdoor	rs)	
2	Working Temperature			0	- 40°C		
	Rechargeable Battery	400 mAh					
	Battery Life	50 hrs					
	Charging			5 \	/DC USB		

More Features with FREE MultiGage Software*

- Simultaneous reading of multiple devices
- Data plotting on iPhone/iPad/Android
- Continuous or single data point recording
- Max, Min, TIR measurement
- Remote zeroing from the app
- GO/NG judgment with green/red color indication
- Custom formula calculator
- . Large analog probe meter with adjustable range
- Data saving in local database
- Data export in CSV via email and cloud drives
- Keyboard entry to Excel or SPC software on PC
- Apple Watch support

Motionics, LLC

8500 Shoal Creek Blvd. Austin, TX 78757 www.motionics.com_info@motionics.com

**MultiGage Cloud 🛆

Users can view and record readings from anywhere with our browser-based remote monitoring platform, MultiGage Cloud. Create custom dashboards, set alerts, receive notifications, and record readings remotely by connecting gauges wirelessly to our Cloud gateway. Connect up to an unlimited amount of sensors at once. MultiGage Cloud is a paid platform.



*Availability of features varies between apps/platforms

The software & hardware can be customized. Contact Motionics for details.

Scan to see product page



WiMER

Wireless (Bluetooth Low Energy) Transmitter For Wireless Measurement Gages

WIMER Comparison Table	WIMER1	WIMER2	WIMER3	WIMER4A	WIMER4D	© WIMER5	WIMER6	SWIMER7	WIMER8	© WIMER9	
Product ID	W1	W2	W3	W4A	W4D	W5	W6	W7	W8	W9	
Compatibility	Mitutoyo Instruments	Fowler Instruments	Mitutoyo Linear Gages LVDT	Mitutoyo Digital Protractor 950-318	Mitutoyo Digital Protractor 950-318	Encoders Optical/Magnetic Linear/Rotary	AC LVDT	Thermometers	Tachometers	Load Cells	
Specifications											
Dimensions	2.50 x 1.6	i3 x 0.80 in	4.09 x 2.20 x 0.91 in	2.50 x 1630 x 0.80 in	1.97 x 0.98 x 0.61 in			4.09 x 2.20 x 0.91 in			
Data Transmission					Bluetooth	Low Energy					
Wireless Data Rate	10 samp	les/sec	30 samples/sec	2 sam;	bles/sec	30 s	amples/sec		2 samples/sec		
Capturing Mode					Single/Co	ntinuous					
Transmission Range					20 m (indoors)/	30 m (outdoors)					
Working Temperature	re 0.50°C										
Battery	Rechar 400	geable ^{mAh}	Rechargeable 3200 mAh	Rechargeable 400 mAh	Powered by battery in protractor			Rechargeable 3200 mAh			
Battery Life	60 hours	20 hours	30 h	ours	120 hours	30 hours (depending on encoder)	15 hours		30 hours	30 hours	
Hardware	Ontional Ontional Not needed A Not needed Not needed										
Data Cable	Optional	Optional	Not needed	 Image: A start of the start of	Not needed	Not needed	Not needed	×	×	×	
Switch	 Image: A start of the start of	 Image: Second sec	-	 Image: A start of the start of	-	-	-	 Image: A start of the start of	<i>S</i>	 Image: A start of the start of	
Foot Switch Connector Port (2.5mm)	۲	۲	-	۲	-	-	-	-	-	-	
USB Charging Kit	ø	0	0	0	-	۲	0	0	8	0	
BLE USB Dongle	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	
Compatible Instruments	Caliper Series 300, 551, 552, 573 Height Gage Series 192, 570, 574 Micrometer Series 77, 293, 144, 171, 233, 244, 230, 243, 244, 244, 244, 244, 244, 244, 244	Micrometer 54-815-xxx Micrometer 54-865-xxx Micrometer 54-870-xxx Caliper 54-100-xxx with data output Caliper 54-100-xxx Dial Indicator 54-502-xxx And more	Linear Gage: 542-156, 157, 158, 161, 162, 163, 164, 165, 166, 171, 172, 173, 174, 175, 176 Linear Gage: 542-181, 182, 204, 222, 223, 224, 230, 442, 262, 264, 264, 264, 442, 262, 264, 264, 264, 264, 264, 264,	Digital Protractor: Mitutoyo 950-318 PRO 360, PRO 3600	Digital Protractor: Mitutoyo 95-318 PRO 360, PRO 3600	Optical & magnetic encoders with 90° phase shift, differential square wave, ISS422 (TTL) output	AC LVDT Gages (Linear variable differential transformers)	Digital Thermometer: Alpha Technics 5400/5000 Thermometer	Tachometer: DT-2100 Tachometer	Tachometer: DT-2100 Tachometer	
Free Software											
iOS iPhone/iPad/ Apple Watch	9	 Image: A state of the state of	 Image: A start of the start of	 Image: A start of the start of	Ø	 Image: A start of the start of	Ø	 Image: A start of the start of	Ø		
Android 4.3 and after	 Image: A start of the start of	 Image: A start of the start of	 Image: Control of the second se	 Image: A start of the start of	 Image: A start of the start of	 Image: Control of the second se	 Image: Control of the second se	 Image: Second sec	 Image: Control of the second se		
Windows PC*	 Image: A start of the start of	 Image: A start of the start of	 Image: A state of the state of	 Image: Control of the second se	 Image: A start of the start of	 Image: A start of the start of	 Image: Control of the second se	 Image: Control of the second se	 Image: Control of the second se		
MultiGage Cloud Browser-based	 Image: A start of the start of	<i>S</i>	 Image: A start of the start of	 Image: Second sec	Ø	Ø	 Image: A start of the start of	 Image: A start of the start of	 Image: A start of the start of		
Customizable	\checkmark		 Image: A start of the start of	 Image: A start of the start of	\checkmark	 Image: A start of the start of	 Image: A start of the start of	 Image: A start of the start of	 Image: A start of the start of		

* Requires BLE USB dongle

The software & hardware can be customized. Contact Motionics for details.





BluePot is a cable actuated position sensor with integrated Bluetooth transmitter at the back. It integrates a high-accuracy position sensor with Bluetooth Low Energy data transmitter. All the readings from one or multiple BluePots will be wirelessly collected and displayed on a smart device or PC.

Features:

- Integrated Bluetooth Low Energy technology
- Multiple platform support (iOS, Android, PC) •
- Continuous and single data recording
- Rechargeable battery (60-hour life with a single charge)
- Multiple-device connectivity •



Low





Multi-platform software capability







and plotting

Data savino



	Model
	Measurement Rang
A A R TOT A R S	Accuracy
	Max Acceleration
8	Repeatability
	Wireless Data Rate
	Transmisson Range
	Battery life
	Working temprature
	Charging

Model	BPT-SP-4	BPT-SP-12	BPT-SP-25	BPT-SP-50				
Measurement Range	4.75 in / 120mm	12.5 in / 317mm	25 in / 635mm	50in / 1270mm				
Accuracy	±1%	±0.25%	±0.25%	±0.25%				
Max Acceleration		1	5g					
Repeatability		±0.	.05%					
Wireless Data Rate		10Hz						
Transmisson Range		20m (indoors) /	/ 30m (outdoors)					
Battery life		60hrs						
Working temprature	-18°C - 50°C							
Charging		5 VD	C USB					

More Features with FREE MultiGage Software*

- Simultaneous reading of multiple devices .
- Data plotting on iPhone/iPad/Android
- Continuous or single data point recording
- Max, Min, TIR measurement
- Remote zeroing from the app
- GO/NG judgment with green/red color indication
- Custom formula calculator
- Large analog probe meter with adjustable range
- Data saving in local database
- Data export in CSV via email and cloud drives
- Keyboard entry to Excel or SPC software on PC
- Apple Watch support

**MultiGage Cloud 🛆

Users can view and record readings from anywhere with our browser-based remote monitoring platform, MultiGage Cloud. Create custom dashboards, set alerts, receive notifications, and record readings remotely by connecting gauges wirelessly to our Cloud gateway. Connect up to an unlimited amount of sensors at once. MultiGage Cloud is a paid platform.



*Availability of features varies between apps/platforms

Scan to see product page

Motionics, LLC 8500 Shoal Creek Blvd. Austin, TX 78757 www.motionics.com_info@motionics.com The software & hardware can be customized. Contact Motionics for details.



WiMER

Wireless (Bluetooth Low Energy) Transmitter For Wireless Measurement Gages

WIMER Comparison Table	WIMER1	©WIMER2	8 WIMER3	8 WIMER4A	WIMER4D	8 WIMER5	8 WIMER6	8 WIMER7	WIMER8	8 WIMER9
Product ID	W1	W2	W3	W4A	W4D	W5	W6	W7	W8	W9
Compatibility	Mitutoyo Instruments	Fowler Instruments	Mitutoyo Linear Gages LVDT	Mitutoyo Digital Protractor 950-318	Mitutoyo Digital Protractor 950-318	Encoders Optical/Magnetic Linear/Rotary	AC LVDT	Thermometers	Tachometers	Load Cells
Specifications										
Data	2.50 x 1.8	13 X 0.80 in	4.09 x 2.20 x 0.91 in	2.50 x 1630 x 0.80 is	1.97 x 0.98 x 0.61 in			4.09 x 2.20 x 0.91 in		
Transmission					Bluetooth	Low Energy				
Wireless Data Rate	10 samp	les/sec	30 samples/sec	2 samp	oles/sec	30 s	amples/sec		2 samples/sec	
Capturing Mode					Single/Co	ntinuous				
Transmission Range					20 m (indoors)/	30 m (outdoors)				
Working Temperature	0-50°C									
Battery	Rechar 400	geable ^{mAh}	Rechargeable 3200 mAh	Rechargeable 400 mAh	Powered by battery in protractor			Rechargeable 3200 mAh		
Battery Life	60 hours	20 hours	30 h	ours	120 hours	30 hours (depending on encoder)	15 hours		30 hours	
Hardware	Ontinel Networked Distance Networked Networked Distance									
Data Cable	Optional	Optional	Not needed	 	Not needed	Not needed	Not needed	~	 Image: A start of the start of	<u> </u>
Data Trigger Switch	9	 	-	 Image: A start of the start of	-	-	-		 Image: A start of the start of	
Foot Switch Connector Port (2.5mm)	۲	۲	-	۲	-	-	-	-	-	-
USB Charging Kit	ø	0	8	0	-	۲	0	0	0	۲
BLE USB Dongle	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Compatible Instruments	Caliper Series 500, 551, 552, 573 Height Gage Series 192, 570, 574 Micrometer Series 277, 593, 143, 173, 234, 236, 334, 236, 334, 237, 234, 234, 234, 234, 234, 234, 234, 234	Micrometer 54-815-xxx Micrometer 54-866-xxx Caliper 54-807-xxx Caliper 54-100-xxx with data output Caliper 54-100-xxx Dial Indicator 54-502-xxx And more	Linear Gage: 542-156, 157, 158, 161, 162, 163, 164, 165, 166, 171, 172, 173, 174, 175, 176 Linear Gage: 542, 181, 182, 204, 222, 223, 224, 230, 442, 262, 264, 270, 401, 421, 612, 613 And more	Digital Protractor: Mitutoyo 950-318 PRO 360, PRO 3600	Digital Protractor: Minutryo 95-0-18 PRO 360, PRO 3600	Optical & magnetic encoders with 30° phase shift, differential aquare wave, R5422(T1) output	ACLVDT Gages (Linear vantable differential transformers)	Digital Thermometer: Alpha Technics 5400/5000 Thermometer	Tachometer: DT-2100 Tachometer	Tachometer: DT-2100 Tachometer
Free Software										
IUS iPhone/iPad/ Apple Watch	 Image: A start of the start of	 Image: A start of the start of	 Image: A start of the start of	 Image: Second sec	 Image: A start of the start of	 Image: Second sec	 Image: A start of the start of	 Image: Second sec	 Image: A start of the start of	
Android 4.3 and after	 Image: A start of the start of	Ø	 Image: A start of the start of	Ø	<i></i>	 Image: A start of the start of	 Image: A start of the start of	Ø	 Image: A start of the start of	
Windows PC*	 Image: A start of the start of		 Image: A start of the start of	 Image: A start of the start of	 Image: A start of the start of	 Image: A start of the start of	 Image: A start of the start of	 Image: A start of the start of	 Image: A start of the start of	
MultiGage Cloud Browser-based	 Image: A start of the start of	<i>S</i>	Ø	Ø	Ø	Ø	 Image: A start of the start of	Ø	 Image: A start of the start of	
LabVIEW* Customizable	\checkmark	ø		 Image: A start of the start of	 Image: A start of the start of	 Image: A start of the start of	 Image: A start of the start of	Ø	 Image: A start of the start of	

* Requires BLE USB dongle

The software & hardware can be customized. Contact Motionics for details.





Motionics' Wireless Measurement Read (WiMER) units are wireless transmitters that connect to various measurement devices and communicate with your iPhone/iPad/Android/PC via Bluetooth Low Energy, allowing users to view and record measurement readings directly on the screen of smart devices/PCs.

WiMER can connect to a variety of devices, depending on the model. If you have a different device that isn't listed below, you can contact us for customization options.



WiMER transmitters and our free MultiGage software are compatible with Windows, iOS, and Android devices.







Multi-platform oftware capability







inuous recor and plotting



WIMER1 for Mitutoyo/Mahr instruments

WiMER1 connects to Mitutoyo/Mahr instruments with SPC output, such as dial indicators, calipers, etc. It has a rechargeable battery, comes with a small data trigger hand switch, and has a 2.5 mm standard port to connect to a foot switch.

0 Hz
0 m (indoors)/30 m (outdoors)
.50 x 1.63 x 0.80 in
- 50 °C
00 mAh, 60 hr life



WiMER2 for Fowler/Sylvac instruments

WiMER2 is the wireless transmitter designed for Fowler/Sylvac users, WiMER2 connects to and powers 54-815/866/870 micrometers, 54-100 /110 calipers,

trigger and a port to connect to a foot switch.

4-530/562 digital Indicators, and more. Includes a data

Wireless Data Rate 10 Hz 20 m (indoors)/30 m (outdoors) Transmission Range 2.50 x 1.63 x 0.80 in Dimensions Working Temperature 0 - 50 °C Battery 400 mAh, 60 hr life



WiMER3

for Mitutoyo linear gauges

WiMER3 is developed for Mitutoyo linear gages with 90° phase difference, differential square wave output. It has a rechargeable battery, and is compatible with linear gages 542-156, 161, 162, 171, 181, 204, 222, 230, 244, 262, 270, 401, 421, 612, and more.

Wireless Data Rate	30 Hz
Transmission Range	20 m (indoors)/30 m (outdoors)
Dimensions	4.09 x 2.20 x 0.91 in
Working Temperature	0 - 50 °C
Battery	3200 mAh, 30 hr life



WIMER4A

for Mitutoyo 950-318 digital protractors

WiMER4A is the rechargeable wireless transmitter for the gravity electronic sensor-based digital protractor Mitutoyo 950-318 (Pro3600). The protractor features full 0-360° measurement and a machined aluminum frame with an easy-to-read liquid crystal display.

Wireless Data Rate	10 Hz
Transmission Range	20 m (indoors)/30 m (outdoors)
Dimensions	2.50 x 1.63 x 0.80 in
Working Temperature	0 - 50 °C
Battery	400 mAh, 20 hr life

Motionics, LLC 8500 Shoal Creek Blvd. Austin, TX 78757 ww.motionics.com_info@motionics.com The software & hardware can be customized. Contact Motionics for details.







WiMER4D

for Mitutoyo 950-318 digital protractors

WiMER4D is the wireless transmitter dongle for the gravity electronic sensor-based digital protractor Mitutoyo 950-318 (Pro3600), which features full 0-360° measurement on an an easy-to-read liquid crystal display. WiMER4D is powered by the protractor; no external power is needed.

Wireless Data Rate	2 Hz
Transmission Range	20 m (indoors)/30 m (outdoors)
Dimensions	1.97 x 0.98 x 0.61 in
Working Temperature	0 - 50 °C
Battery	Powered by 9V battery in protractor; 120 hr life



WiMER5

for optical and magnetic encoders

WiMER5 is a universal transmitter for optical and magnetic encoders with 90° phase shift, differential square wave, RS422 (TTL) output. WiMER5 provides a 5V power supply to the connected encoder and accurately interprets A & B quadrature signals with high-speed counter onboard.

Wireless Data Rate	30 Hz
Transmission Range	20 m (indoors)/30 m (outdoors)
Dimensions	4.09 x 2.20 x 0.91 in
Working Temperature	0 - 50 °C
Battery	3200 mAh, 30 hr life



WiMER6

for AC linear variable differential transducers (LVDTs)

WiMER6 is a signal conditioner/ transmitter for AC linear variable differential transducers (LVDTs). It contains a low-distortion sine wave oscillator to generate steady excitation signals to drive the LVDT primary. LVDT secondary outputs are converted to a stable DC voltage onboard and sampled by a 16-bit ADC.

Wireless Data Rate	10 Hz
Transmission Range	20 m (indoors)/30 m (outdoors)
Dimensions	2.50 x 1.63 x 0.80 in
Working Temperature	0 - 50 °C
Battery	400 mAh, 60 hr life



WIMER7

for Series 5000 and 5400 temperature probes

WiMER7 is a wireless transmitter for Series 5000 and 5400 temperature probes with USB output.Using Bluetooth Low Energy technology, users can read and record temperature measurements remotely.

Wireless Data Rate	10 Hz
Transmission Range	20 m (indoors)/30 m (outdoors)
Dimensions	2.50 x 1.63 x 0.80 in
Working Temperature	0 - 50 °C
Battery	400 mAh, 60 hr life



WIMER8

for DT-2100 digital tachometers

WiMER8 is a wireless transmitter for DT-2100 digital tachometers with USB output. WiMER8 can also provide power to the connected device, so you don't need an external power supply.

10 Hz
20 m (indoors)/30 m (outdoors)
2.50 x 1.63 x 0.80 in
0 - 50 °C
400 mAh, 60 hr life



WiMER9

for tension/compression load cells

WiMER9 is a wireless transmitter for tension/compression load cells. WiMER9 can also provide power to the connected device, so you don't need an external power supply. It has a rechargeable 400mAh battery and comes with charging accessories.

Wireless Data Rate	10 Hz
Transmission Range	20 m (indoors)/30 m (outdoors)
Dimensions	2.50 x 1.63 x 0.80 in
Working Temperature	0 - 50 °C
Battery	400 mAh, 60 hr life

Motionics, LLC 8500 Shoal Creek Blvd. Austin, TX 78757 www.motionics.com info@motionics.com The software & hardware can be customized. Contact Motionics for details.





BluePSI is a wireless pressure sensor used for measurement of liquid or gas pressure, as well as temperature measurement. These Bluetooth-enabled pressure sensors, with the help of our free software, allow you to continuously monitor pressure in multiple locations simultaneously on your iOS, Android, or Windows device. Along withstreaming real-time readings, some models log data internally. BluePSI has high resolution (24-bit ADC), high accuracy (±0.25%FS), a long battery life (up to 2 years with a coin battery) and is IP67 rated for high resistance to water and dust exposure. Most importantly, it eliminates the need for hard wiring and manual data logging thanks to its Bluetooth 4.0 wireless connectivity. With our app/software on

iOS/Android smart devices and Windows PCs, users can continuously monitor pressure conditions at multiple locations at once.

(*

Bluetooth Low Energy

.

 \square Long battery life

IP67 IP Rati IP67

(:: | ****



LOG Onboard data logger

Multi-platform software capability

-Ò

Multi-gage capability and plotting

ゝ

(,,,)

rding Data sav Remote cloud monitoring*



Pressure readings from multiple BluePSI sensors are transmitted to a PC or smart device simultaneously via Bluetooth Low Energy



More Features with FREE MultiGage Software*

GO/NG judgment with green/red color indication

Large analog probe meter with adjustable range

of sensors at once. MultiGage Cloud is a paid platform.

Users can view and record readings from anywhere with our browser-based remote monitoring platform, MultiGage Cloud. Create custom dashboards, set alerts, receive notifications, and record readings remotely by connecting gauges wirelessly to our Cloud gateway. Connect up to an unlimited amount

Simultaneous reading of multiple devices Data plotting on iPhone/iPad/Android Continuous or single data point recording

Max, Min, TIR measurement Remote zeroing from the app

Custom formula calculator

Apple Watch support **MultiGage Cloud 🦾

Data saving in local database Data export in CSV via email and cloud drives Keyboard entry to Excel or SPC software on PC

BluePSI	BPXXX	BP2-XXX-01	BP2-XXX-02
Pressure Msmt Range	30-15,000 psi	100-10	,000 psi
Pressure Accuracy		±0.25% FS	
Proof Pressure	2x msm	nt range (20,000 p	si max)
Burst Pressure	5x msn	nt range (20,000 p	si max)
Temperature Msmt Range	N/A	0-5	5°C
Temperature Accuracy	N/A	±3	۴°C
Transmission Range		Up to 20 m	
Wireless Data Rate	5 sec/sample (adjustable up to 10 samples/sec*)		
Weather Proof	IP67		
Working Temperature	-20 - 85 °C		
Battery Life	2 years at 5 second interval w/CR2050		w/CR2050
Battery Type	CR2050/CR2032		
Pressure Port	¼-18NPT (¼-19BSPT for bar models)		
Data Logging	No Yes		Yes
Real-Time Readings	Yes		

* Higher data rate could reduce battery life



**Availability of features varies between apps/platfo

Motionics, LLC 8500 Shoal Creek Blvd. Austin, TX 78757 www.motionics.com_info@motionics.com The software & hardware can be customized. Contact Motionics for details







Pressure Range	Model Number	Data Logging	Enclosure Design*	BLE Design**
30 PSI	BP030	-	Α	Initial model
100 PSI	BP2-100-01	-	В	Newer model
100151	BP2-100-02	 Image: A start of the start of	В	Newer model
300 PSI	BP300	-	Α	Initial model
1,000 PSI	BP2-01K-01	-	В	Newer model
	BP2-01K-02	 Image: A start of the start of	В	Newer model
5,000 PSI	BP2-05K-01	-	В	Newer model
	BP2-05K-02	 Image: A start of the start of	В	Newer model
350 Bar	BP350B	-	Α	Initial model
10,000 PSI	BP2-10K-01	-	В	Newer model
	BP2-10K-02	 Image: A start of the start of	В	Newer model
15,000 PSI	BP15K	-	Α	Initial model

* BluePSI dimensions can be found on the store page.

** Newer models have improved Bluetooth connection stability.

The software & hardware can be customized. Contact Motionics for details. Scan to see product page



BlueDial Flat

Bluetooth Dial Indicator

BlueDial Flat is a series of high-accuracy digital indicators with a built-in Bluetooth Low Energy transmitter. It operates on a single CR2032 battery and comes in three models to cover different measurement ranges and resolutions.

BlueDial Flat sends readings to iPhone/iPad/Android without the hassle of data cables, making data reading fast, safe, and error-free, especially in hard-to-reach places. Data can be remotely viewed in a large digital readout or an analog probe meter on a mobile device.

Features

- Built-in Bluetooth Low Energy, no external transmitter needed
- Multiple platform support (iOS, Apple Watch, Android)
- Operates on one single CR2032 battery
- Offers both stem and back lug mounting options









Multi-platform

software capability





BlueDial Flat	BDF-102	BDF-103	BDF-202
Measurement Range	0.5 in/12.7 mm	0.5 in/12.7 mm	1 in/25.4 mm
Resolution	0.0005 in/0.01 mm	0.00005 in/0.001 mm	0.0005 in/0.01 mm
Accuracy	± 0.001 in/0.02 mm	± 0.0002 in/0.004 mm	± 0.001 in/0.02 mm
Transmission Range	Up to 5m		
Data Update Rate	1 sample/sec		
Working Temperature	0 - 40 °C		
Battery	CR2032		
Battery Life	3 months (w/Bluetooth off) / 24hrs (w/Bluetooth on)		
Mounting Options	Both stem and back lug		

More Features with FREE MultiGage Software*

- Simultaneous reading of multiple devices
- Data plotting on iPhone/iPad/Android
- Max, Min, TIR measurement
- Remote zeroing from the app
- GO/NG judgment with green/red color indication
- Custom formula calculator
- Adjustable data rates
- Large analog probe meter with adjustable range
- Apple Watch support



*Availability of features varies between apps/platforms.

Motionics, LLC 8500 Shoal Creek Blvd. Austin, TX 78757 www.motionics.com info@motionics.com The software & hardware can be customized. Contact Motionics for details.



WLRF Wireless Laser Rangefinder



Í

Ó.

Wireless Laser Rangefinder (WLRF) is capable of quickly and accurately identifying the distance to a target up to 200 m away. With a built-in Bluetooth Low Energy transmitter, laser measurement readings can be wirelessly viewed and collected on iPhone, iPad, Android and Windows devices.

There is an inclinometer embedded inside WLRF to monitor device tilt angle simultaneously with laser distance measurement, facilitating applications that require intersection scanning.

WLRF has a standard $\frac{1}{2}$ -20 thread mounting hole to allow the user to easily mount the device on a common tripod for quick and steady setup.

Features:

- Built-in Bluetooth Low Energy technology
- Power supply, signal conditioning and data transmission all in one
- 100% cable free
- Rechargeable battery







0.2070





bility Cor

Measurement Resolution

Accuracy Laser Class Wireless Data I Transmission R Working Temp

Rechargeable B Battery Life Dimensions

Weight

tinuous recording and plotting

Remote cloud

	monitoring
	Specification
ange	0.2 to 125 m (18% reflectivity); 0.2 to 200m (80% reflectivity)
	1 cm
	10 cm
	Class 1
ate	10 Hz
nge	20 m (indoors)/30 m (outdoors)
rature	0 - 50 °C
attery	3200 mAh
	30 hrs
	120 x 78 x 43 mm

300g



- Simultaneous reading of multiple devices
- Data plotting on iPhone/iPad/Android
- Continuous or single data point recording
- Max, Min, TIR measurement

- Remote zeroing from the app
- GO/NG judgment with green/red color indication
- Custom formula calculator
- Large analog probe meter with adjustable range
- Data saving in local database
- Data export in CSV via email and cloud drives
- Keyboard entry to Excel or SPC software on PC
- Apple Watch support

**MultiGage Cloud 🛆

Users can view and record readings from anywhere with our browser-based remote monitoring platform, MultiGage Cloud. Create custom dashboards, set alerts, receive notifications, and record readings remotely by connecting gauges wirelessly to our Cloud gateway. Connect up to an unlimited amount of sensors at once. MultiGage Cloud is a paid platform.



*Availability of features varies between apps/platforms

Motionics, LLC 8500 Shoal Creek Blvd. Austin, TX 78757 www.motionics.com info@motionics.com The software & hardware can be customized. Contact Motionics for details.

© 2022 Motionics, LLC. All rights reserved.



B10

Wireless Load Gage

Motionics' wireless force gauge combines a high-strength industrial force gauge with the safety and convenience of Bluetooth Low Energy technology.

You can connect this gauge to your iOS, Android, or PC device with our free software, MultiGage, and read and record measurements remotely. This takes you out of hazardous, hard-to-reach locations when taking force measurements.

Our wide range of models allows for use in variety of force measurement applications (tension load cells, compression load cells, and dynamometers) and resolution, accuracy, and capacity requirements. With a heavy-duty, IP67-rated outer shell and an incredibly high weight-to-strength ratio, this force gauge is suitable for even the harshest environments.



Bluetooth

I ow Energy



















	WLG-D1	WLG-C1	WLG-T1
Capacity	6.5te/14,300lb	5-1,000te (depends on model)	1000kg-500te (depends on model)
Resolution	0.001te/2lb	0.001-0.5te (depends on model)	0.5kg-0.1te (depends on model)
Accuracy	+/- 0.2% of full scale	±0.1% full scale	±0.1% full scale
Wireless Data Rate	10Hz	10 Hz	10 Hz
Transmission Range	100m/328ft	100m/328ft	100m/328ft
Working Temperature	-10°C - 50°C	-10°C - 50°C	-10°C - 50°C
IP Rating	IP67	IP67	IP67
Battery	4x AA	4x AA	4x AA
Battery Life	500hr	500hr	500hr

More Features with FREE MultiGage Software*

- Simultaneous reading of multiple devices .
- Data plotting on iPhone/iPad/Android
- Continuous or single data point recording
- Max, Min, TIR measurement
- Remote zeroing from the app
- GO/NG judgment with green/red color indication
- Custom formula calculator
- Large analog probe meter with adjustable range
- Data saving in local database
- Data export in CSV via email and cloud drives
- Keyboard entry to Excel or SPC software on PC
- Apple Watch support

**MultiGage Cloud 🛆

Users can view and record readings from anywhere with our browser-based remote monitoring platform, MultiGage Cloud. Create custom dashboards, set alerts, receive notifications, and record readings remotely by connecting gauges wirelessly to our Cloud gateway. Connect up to an unlimited amount of sensors at once. MultiGage Cloud is a paid platform.



*Availability of features varies between apps/platforms.

Motionics, LLC 8500 Shoal Creek Blvd. Austin, TX 78757 www.motionics.com info@motionics.com The software & hardware can be customized. Contact Motionics for details.

© 2022 Motionics, LLC, All rights reserved. **B11**







Continuous recording and plotting

Wireless Bore Gauge Set



Motionics Wireless Bore Gauge Set combines a Bluetooth dial indicator BlueDial/BlueDial-LT with a high-quality bore gauge set to minimize human error and measurement time and increase accuracy.

The wireless BlueDial/BlueDial-LT indicator measures anvil movements and wirelessly transmits readings to a paired mobile device continuously. In our MultiGage Reader app, the user can set the gauge in peak hold mode to automatically capture max/ min value in calibration and real measurement. MultiGage also offers a custom calculator feature to let the user create a custom gauge to include a preset value in calculation to directly convert deviation measurement to real ID value. The GO/NG judgment feature can be enabled to directly display accept/reject result based on user-entered limits. The robust bore gauge set utilizes a two-point contact system to detect geometry problems such as ovality and taper, and carbidetipped contact points offer extended wear and improved abrasion resistance.

A wireless BlueDial/BlueDial-LT dial indicator can be added to your existing bore gauge set to make your set a wireless turnkey bore gauge solution.

Features

- Fullscreen digital and analog readout
- Tolerance input option with red/green indicator













Data s

.....

Compatible with both millimeter and inch bore gauge sets







Wireless Bore Gauge Set	Specification
Measurement Range	2"- 6"
Resolution	0.0005" (BD10-783, BDLT-102), 0.0001" (BD10- 793), 0.00005" (BDLT-103)
Accuracy	0.0008" (BD10-783), 0.00012" (BD10-793), 0.002" (BDLT-102), 0.0004" (BDLT-103)
Wireless Data Transmission Rate	10 Hz (BD10-783, BD10-793), 8 Hz (BDLT-102, BDLT-103)
Wireless Date Transmission Range	up to 20 m (indoors)/30 m (outdoors)
Battery	400 mAh rechargeable
Battery Usage Life	50 hrs

More Features with FREE MultiGage Software*

- Simultaneous reading of multiple devices
- Data plotting on iPhone/iPad/Android
- Continuous or single data point recording
- Max, Min, TIR measurement
- Remote zeroing from the app
- GO/NG judgment with green/red color indication
- Custom formula calculator
- Large analog probe meter with adjustable range
- Data saving in local database
- Data export in CSV via email and cloud drives Keyboard entry to Excel or SPC software on PC
- Apple Watch support





Users can view and record readings from anywhere with our browser-based remote monitoring platform, MultiGage Cloud. Create custom dashboards, set alerts, receive notifications, and record readings remotely by connecting gauges wirelessly to our Cloud gateway. Connect up to an unlimited amount of sensors at once. MultiGage Cloud is a paid platform.

Motionics, LLC 8500 Shoal Creek Blvd. Austin, TX 78757 info@motionics.com ww.motionics.com

The software & hardware can be customized. Contact Motionics for details.

© 2022 Motionics, LLC, All rights reserved.

Scan to se product pag

between apps/platforms.

B12

BPRO Bluetooth Digital Protractor



MOD

Motionics BPRO Bluetooth Digital Protractor is an economic digital protractor with built-in Bluetooth Low Energy technology. It covers a whole 360° (4x90°) range with 0.05° resolution and 0.2° accuracy. Thanks to its wireless data transmission feature, protractor readings can be easily read out in real time on the screen of a smartphone/tablet/ Windows PC remotely and from any angle.

BPRO comes in two form factors, as a cube or as a torpedo level, for different applications.

Strong magnets on the solid military grade alloy body allow the user

to easily attach the protractor to any steel surface for measurement. Features

- 360° (4x90°) reading range
- Bluetooth Low Energy Technology
- Multiple platform support (iOS, Android, PC)
- · Large reading on smart device/PC screen, no more viewing angle issues
- Rechargeable battery

















ZERO

Remote cloud
monitoring**



Angle Sensor	BPRO-S	BPRO-L	
Measurement Range	360° (90° x 4)		
Resolution	0.0)5°	
Accuracy	0.2°		
Repeatability	0.1°		
Wireless Data Rate	10 Hz		
Transmission Range	20 m (indoors)/30 m (outdoors)		
Dimensions	2.13 x 2.13 x 0.91 in	6 x 2.4 x 1.2 in	
Working Temperature	0-50°C		
Battery	400 mAh		
Battery Life	30 hrs		
Charging	5 VDC USB		

More Features with FREE MultiGage Software*

- Simultaneous reading of multiple devices
- Data plotting on iPhone/iPad/Android
- Continuous or single data point recording
- Max, Min, TIR measurement
- Remote zeroing from the app
- GO/NG judgment with green/red color indication
- Custom formula calculator
- Large analog probe meter with adjustable range
- Data saving in local database
- Data export in CSV via email and cloud drives
- Keyboard entry to Excel or SPC software on PC
- Apple Watch support

**MultiGage Cloud 🛆

Users can view and record readings from anywhere with our browser-based remote monitoring platform, MultiGage Cloud. Create custom dashboards, set alerts, receive notifications, and record readings remotely by connecting gauges wirelessly to our Cloud gateway. Connect up to an unlimited amount of sensors at once. MultiGage Cloud is a paid platform.



*Availability of features varies between apps/platforms.

Motionics, LLC 8500 Shoal Creek Blvd. Austin, TX 78757 www.motionics.com info@motionics.com The software & hardware can be customized. Contact Motionics for details.



Bosch GLM50

Wireless Laser Measure



Bosch GLM50 is a compact pocket size yet highly accurate laser distance measure. It measures distances from up to 165 feet to within 1/8 inch. Thanks to its built-in Bluetooth Low Energy technology, laser measurement readings can be easily picked up wirelessly in Motionics apps/software on iPhone, iPad, Android, and Windows PC. When working together 165' Julidud with other measurement devices in applications such as Benkelman tests, GLM50 provides accurate coordinate reference and greatly facilitates the test process.

Features

- Long-range and high-accuracy measurement
 Continuous laser reading

 - Data recording, storage, and graphing capabilities •
- Bluetooth Low Energy Technology Multiple platform support (iOS, Android, PC)















More Features with FREE MultiGage Software*

- Simultaneous reading of multiple devices
- Data plotting on iPhone/iPad/Android
- Continuous or single data point recording
- Max, Min, TIR measurement
- Remote zeroing from the app
- GO/NG judgment with green/red color indication
- Custom formula calculator
- Large analog probe meter with adjustable range
- Data saving in local database
- Data export in CSV via email and cloud drives
- Keyboard entry to Excel or SPC software on PC
- Apple Watch support

Motionics, LLC

8500 Shoal Creek Blvd. Austin, TX 78757

ww.motionics.com_info@motionics.com

**MultiGage Cloud 🗁

Users can view and record readings from anywhere with our browserbased remote monitoring platform, MultiGage Cloud. Create custom dashboards, set alerts, receive notifications, and record readings remotely by connecting gauges wirelessly to our Cloud gateway. Connect up to an unlimited amount of sensors at once. MultiGage Cloud is a paid platform.



*Availability of features varies between apps/platforms.

The software & hardware can be customized. Contact Motionics for details.



and plotting

Laser Measure	Specification
Measurement Range	6 in - 165 ft/0.15 - 50 m
Resolution	± 1/32 in/0.5 mm
Accuracy	± 1/16 in/1.5 mm
Wireless Data Rate	2 Hz
Transmission Range	20 m
Dimensions	4.2 x 1.8 x 0.9 in
Working Temperature	-10 - 45 °C
Battery	2x AAA

Wireless 2-Axis Precision Digital Level



Digi-Pas DWL-1500XY is a Bluetooth enabled dual-axis precision digital level. Its high resolution (0.001°) and high

accuracy (±0.002° for 0 to ±0.5° and ±0.004° for other angles) measuring capability qualifies it for majority of entry level industrial applications. Additionally with its built-in Bluetooth Low Energy feature, user can easily read and capture leveling readings on the screen of an iOS/Android smart device or a Windows PC while adjusting machine's orientation.

Features

- High resolution & high accuracy measurement
- Bluetooth Low Energy Technology
- Multiple platform support (iOS, Android, PC)
- Real-time and continuous reading















	DigiF
	Measu
	Resol
	Accur
	Measu
	Transi
4 🏯 🥌 👝	Dimer
	Worki
	Detter

DigiPas Level	Specification
Measurement Range	0 - ±2°
Resolution	0.001°
Accuracy	±0.002° (0-0.5°) ±0.004° (other angles)
Measurement Speed	≤ 5 sec
Transmission Range	15 m
Dimensions	6 x 2 x 1.5 in
Working Temperature	-10 - 50 °C
Battery	2x AA

More Features with FREE MultiGage Software*

- Simultaneous reading of multiple devices
- Data plotting on iPhone/iPad/Android
- Continuous or single data point recording
- Max, Min, TIR measurement
- Remote zeroing from the app
- GO/NG judgment with green/red color indication
- Custom formula calculator
- Large analog probe meter with adjustable range
- Data saving in local database
- Data export in CSV via email and cloud drives
- Keyboard entry to Excel or SPC software on PC
- Apple Watch support

**MultiGage Cloud 🛆

Users can view and record readings from anywhere with our browser-based remote monitoring platform, MultiGage Cloud. Create custom dashboards, set alerts, receive notifications, and record readings remotely by connecting gauges wirelessly to our Cloud gateway. Connect up to an unlimited amount of sensors at once. MultiGage Cloud is a paid platform.



Availability of features varies between apps/platforms.

Motionics, LLC 8500 Shoal Creek Blvd Building 4 Suite 209 Austin, TX 78757 www.motionics.com info@motionics.com The software & hardware can be customized. Contact Motionics for details.



CrankSense Wireless Crankshaft Deflection Kit



CrankSense Wireless Crankshaft Deflection Test Kit uses an LVDT-based Bluetooth crankshaft gauge to improve accuracy and efficiency of crankshaft web deflection tests. With seamless integration of hardware and software, CrankSense enables users to record deflection data easily and safely.

Thanks to CrankSense's built-in angle measurement, there is no need to mark test points on the crankshaft web manually. Both the iPad app and Windows software will notify users once the crankshaft rotates to test locations. A PDF test report can be generated and saved at the end of each test for further analysis. **CrankSense** WIRELESS CRANKSHAFT DEFLECTION TEST KIT

CrankSense Wireless Gauge	Specification		Contracting the
Resolution	0.0001" (0.003mm)	CrankSense	
Measurement Range	0.4" (10mm)	MOTIONICS	
Connectivity	Bluetooth 4.0		
Mindae Data Transmission Data	101		
Transmission Range	10Hz		ClounkSense
Crankshaft Web Gap Range	5.71-28.35" (145-720mm) Customize model covers shorter ranges down to 3.94° (100mm)		
Working Temperature	32-122°F (0-50°C)		
Transmitter Battery	400mAh Rechargeable 5VDC USB Charging / 30hrs		Contraction of the second seco
Digital Dial Battery	Replaceable SR44 or LR44 coin battery / 2 years		
Angle Measurement Resolution	Built-in Rotating Angle Measurement with 1° Resolution	"U"	
8 5	• () • ()		💾
Bluetooth Rechargeable .ow Energy	All-in-one gauge Both deflection and rotational measurement	Multi-platform software capability	Data saving Adjustable gauge length
Deflection Read	Rotation Read		Included in the Package: • Wireless CrankSense Gauge • BEL USB Dongle • Extension Rod Set • Protective CrankSense Case • 60° punch • USB Power Adapter • USB Power Adapter • USB Charging Cable • CrankSense Coin Battery • Product Documents
App Features:			AAN MAXAMMET PITANA MAY AMAK
Wireless Data Recording Tet Automatic Test Point Notifications W Test Report Generation Ta Email Generated Reports Fr Tit Angle Indicator L Automatic Deflection Calculations Ecological	ster Signature ireless Print Reports ble Organized Results d Play Test Included cal Report Storage Manager lit Engine Configuration Settings		
For iPad For Windows	00000		
Windows			
Motionics, LLC Austin, TX 78757 www.motionics.com info@motionics.com	The software & hardware can be Contact Motionics for de © 2025 Motionics, LLC. All righ	customized. ;ails. I its reserved.	Scan to see product page
	C1		

PileSense™ Wireless Static Pile Load Test Kit



PileSense™ by Motionics is a fully wireless, modular, and customizable solution for performing static pile load tests with more precision and accuracy. The kit includes Bluetooth sensors that connect to our software, enabling real-time wireless monitoring and recording of pile load tests.

Configure your setup by choosing from a selection of wireless gauges and devices, including BlueDial Bluetooth dial indicators, BluePSI pressure sensors, and Bluetooth load gauges. All PileSense™ sensors sync seamlessly with our easy-to-use Pile Load Test app for iPad or MultiGage mobile and PC software, delivering synchronized real-time data updates for more accurate analysis.

PileSense WIRELESS STATIC PILE LOAD TEST KIT

The PileSense™ system supports multiple dial indicators (up to 6 on the PileSense iPad app, and even more on MultiGage Windows), making it scalable for anything from small-scale testing to large, multi-point

PileSense™ Kits	Specification
Measurement Range - Distance	BlueDial: Up to 4" (101.6mm) BluePot: Up to 50" (1270mm)
Measurement Range - Pressure	Up to 15000psi
Measurement Range - Load	Compression: Up to 1000t (2200000lb) Tension: Up to 500t (1100000lb)
Connectivity	Bluetooth Low Energy
Wireless Data Transmission Range	Up to 100ft (30m), longer range availabl
Wireless Data Transmission Rate	Configurable up to 10Hz
Software Compatibility	Windows PC, iOS, Android

PileSense™ Kits can be customized for longer range connections. Contact us for more information.





Rechargeable







Multi-platform software capability





Included in the Kit:

- BlueDials: Bluetooth Dial Indicators
- BluePSI: Bluetooth Pressure Sensor
- Protective PileSense™ Carrying Case
- PileSense iPad App
- iPad with Protective Case (Optional)

App Features:

- . Easy pairing/unpairing with sensors
- Simultaneous recording of BlueDials and pressure sensor
- Measurement results organized in table
- Remote zeroing of BlueDial readings in the app
- Automatic calculation of average deflection
- . Option to enter jack calibration equation for automatic pressure-load conversion
- Excel CSV export via email
- Local saving on iPad for future access and export



Motionics, LLC Austin, TX 78757

The software & hardware can be customized Contact Motionics for details.

www.motionics.com info@motionics.com





Wireless Benkelman Deflection Test Kit



The Wireless Benkelman Test Kit is a novel tool for Benkelman beam deflection testing. It consists of a Bluetooth dial indicator, BlueDial, to measure deflection of flexible pavements under the action of moving wheel loads, and a Bluetooth laser measurer to measure distance between the Benkelman beam and the moving truck. The app/ software on iOS/Android smart devices or Windows PC pairs with both Bluetooth measurement devices simultaneously to sync and record their readings.



BlueDial	Specification	Laser Measure	Specification
Measurement Range	0.5 in/12.7 mm, 1 in/25.4 mm, 2 in/50 mm	Measurement Range	6 in - 165 ft/0.15 - 50 m
Resolution	0.0005 in/0.01 mm, 0.00005 in/0.001 mm	Resolution	± 1/32 in/0.5 mm
Accuracy	±0.001 in, ±0.0002 in	Accuracy	± 1/16 in/1.5 mm
Wireless Data Rate	8 Hz	Wireless Data Rate	2 Hz
Transmission Range	30 m	Transmission Range	20 m
Working Temperature	0-50 °C	Working Temperature	-10-45 °C
Battery	400 mAh rechargeable, 50 hr battery life		
		Battery	2x AAA
	. –	-	





Bluetooth

Rechargeable Dial Indicator

00

High-accuracy laser senso



Multi-platform software capability

₿

Multi-gage ca abilita

D

NMUMMUM



Included in the package:

BlueDial(s): Bluetooth Dial Indicator

(default 1x, can add more)

Bluetooth Laser Measurer 1x Protective Carrying Case 1x

3.5837



Wireless Deflection Measurement Moving wheel 8 Wireless Laser 8 Distance Measurement (....



More Features with our FREE Apps/Software*

- Simultaneous reading of multiple devices
- Data plotting on iPhone/iPad/Android
- Continuous or single data point recording
- Max, Min, TIR measurement
- Remote zeroing from the app
- GO/NG judgment with green/red color indication
- Real-time cloud data streaming worldwide
- Custom formula calculator
- Large analog probe meter with adjustable range
- Data saving in local database
- Data export in CSV via email and cloud drives
- Keyboard entry to Excel or SPC software on PC
- Apple Watch support

www.motionics.com info@motionics.com

Motionics, LLC

8500 Shoal Creek Blvd. Austin, TX 78757

*Availability of features varies between apps/platforms The software & hardware can be customized Contact Motionics for details



Wireless Rotor Runout Kit



Wireless Rotor Runout Kit is a novel tool for rotor runout measurement. It consists of a Bluetooth dial indicator (BlueDial), a Bluetooth angle sensor (BlueAngle) and the iPad application Runout. Together, these sensors work to seamlessly measure both circumference deflection and rotor rotating angle to show the real contour of the rotor. The multiple-sensor connectivity of the app also allows users to add extra BlueDials to conduct runout tests on different planes simultaneously.



BlueDial BD10-783/793	Specification
Measurement Range	0.5 in/12.7 mm
Resolution	0.0005 in, 0.01 mm/0.0001 in, 0.001 mm
Accuracy	0.0008 in/0.00012 in
Wireless Data Rate	10 Hz
Transmission Range	20 m (indoors)/30 m (outdoors)
Working Temperature	0 - 50 °C
Rechargeable Battery	400 mAh
Battery Life	60 hrs









Both deflection 8 angle measurement

BlueAngle	Specification
Measurement Range	360 °
Resolution	0.1 °
Wireless Data Rate	50 Hz
Transmission Range	Up to 20 m
Dimensions	1.58 x 1.58 x 0.79 in
Working Temperature	0-50 °C
Rechargeable Battery	150 mAh
Battery Life	10 hrs
A 1	_







Polar and linear plot generation





0.03



Rotor Runout iPad app

Ś

ding



- Wireless connectivity with deflection (dial indicator) sensor and angle sensor
- Multiple sensor connectivity (up to 9 simultaneously) ٠
- Probe meter for deflection readings ٠
- User-defined range for probe meter
- Analog rotating indicator for rotor angular position
- Remote zeroing of deflection and angle sensors
- User-defined number of test points on rotor circumference
- Cartesian plot and polar plot
- Direct screenshot of the results and plots to save in local
- · Values and positions of Max/Min summarized in result table
- · Measurement export via AirDrop or email in CSV format
- PDF report with test information, machine image, test results notes, tester signature and map
- · Local test records manager to retrieve previous data and reports

The software & hardware can be customized Contact Motionics for details

MANYAM 2.9972 3.5837







Motionics, LLC 8500 Shoal Creek Blvd. Austin, TX 78757 www.motionics.com info@motionics.com

© 2022 Motionics, LLC. All rights reserved. C4

°°° ≣≣≣

Wireless Hydraulic Pressure Test Kit



Motionics wireless hydraulic pressure test kit is your solution for safe, efficient pressure testing with heavy machinery. Our Bluetooth-enabled pressure sensors, with the help of our free software, MultiGage, allow you to continuously monitor pressure in multiple locations simultaneously on your iOS, Android, or Windows device.

These durable, compact, wireless pressure gauges eliminate the need for hard-wiring and are ideal for pressure and temperature measurement for pumps, compressors, hydraulic presses, machinery, excavators, pneumatic equipment and motors in harsh environments. The kit, with the use of a connector, is compatible with most industrial machinery.

The set comes with three to four wireless pressure gauges, a BLE USB dongle for our Windows software, and a Pelican protective case to keep your test kit in good condition for long-term use.

Features

- Long battery life up to 2 years with a standard coin battery
- IP67 harsh environment proof
- High accuracy reading ±0.25% FS
- Multiple sensor reading capability up to 14 on iOS device



Pressure Port

More Features with our FREE Apps/Software*

- Simultaneous reading of multiple devices
- Data plotting on iPhone/iPad
- Continuous or single data recording
- Max, Min, TIR measurement
- Remote zeroing from the app
- Real-time cloud data streaming worldwide
- Custom formula calculator
- Large analog probe meter with adjustable range
- Measurement voice read in 9 languages
- · Data export in CSV via email and cloud drives
- Keyboard entry to Excel or SPC software on PC

TO THE TAXABLE PARTY OF TAX

*Availability of features varies between apps/platforms

Motionics, LLC 8500 Shoal Creek Blvd. Austin, TX 78757 www.motionics.com info@motionics.com The software & hardware can be customized. Contact Motionics for details.

© 2022 Motionics, LLC. All rights reserved.



¼-18NPT (¼-19BSPT for bar models)

C5

iPad Vibration Analyzer

Motionics' vibration analysis kit is an iPad-based vibration analyzer. It includes a low voltage piezoelectric accelerometer for accurate vibration measurement. Accelerometer signals are continuously acquired through the 2-Channel DAQ box mounted on the back of an iPad and passed to Motionics vibration apps through the iPad's lightning port.

This vibration analysis kit includes the VibraTestPro App and iVibraMeter apps. VibraTestPro is the go-to app to measure vibration on iPhone and iPad. It provides comprehensive vibration analysis features, such as a real-time waveform & spectrum viewer, ISO10816 vibration meter, raw signal recording and so on. The user can also use the iVibraMeter app on iPad for quick overall vibration tests of multiple common machines such as pumps, motors, spindles, etc. with rapid PDF report generation capability. The kit is designed modularly, so it can be converted to a vibration/rotor balancing kit by adding a tachometer with the use of the iRotorBalancer app.

App Features:

- Vibration meter with ISO10816 (customizable) severity indicator
- Interactive real-time waveform and spectrum viewer
- Customizable graph appearance: background color, line color, line thickness, grids
- Velocity and acceleration readings (metric & imperial)
- Auto Peak detection cursor, manual cursor, and top 5 peaks detector
- · Distance cursor, harmonic cursor and sideband cursor
- Vibration raw signal (auto & manual) recording (adjustable sampling rate) with local data saving
- Vibration signal export in CSV and WAV formats
- Plant-Machine-Test point structure for easy data management
- PDF test report with plant map, images, signature & notes
- Quick and single tap vibration reading for pre-defined test points on common machines (motors, fans, pumps, spindles, etc.) with auto PDF report generation

Included in the Package:

- iPad (optional and customizable)
- 2-Channel DAQ box with 2-Ch simultaneous measurement
- Industrial single channel accelerometer with magnet base
- 3ft coiled accelerometer cable (extends to 10ft)
- Custom iPad case for protection and to hold the DAQ box
- Protective Carrying Case
- iVibraMeter iPad App for overall vibration and certificate tests
- VibraTestPro iPhone/iPad App for vibration analysis
- Several other calculator apps as vibration reference tools





Motionics, LLC 8500 Shoal Creek Blvd Building 4 Suite 209 Austin, TX 78757 www.motionics.com info@motionics.com The software & hardware can be customized. Contact Motionics for details.





iPad Vibration and Rotor Balancing Kit



Motionics iPad Rotor Balancing Kit turns an iPad into a rotor balancer and vibration analyzer. It is a pure iPad-based kit consisting of iPad (optional), a 2-channel DAQ box,industrial accelerometer and a laser tachometer. The kit comes with several apps for vibration analysis, overall vibration testing, and rotor balancing.

The iPad iRotorBalancer app allows single-plane, 2-plane, 4-runs, and overhung balancing to meet different rotor balancing requirements. With just simple tappingandtyping, anyone can be an expert in rotor balancing using this package. The iPhone/ iPad VibraTestPro app makes the kit a full vibration analyzer with time domain and frequency domain analysis. The kit also comes with the iVibraMeter App for iPad which can be usedfor a quick overall vibration tests of multiple common machines such as pumps, motors, spindles, etc. with rapid PDF report generation capability.

Features:

- Single-Plane balancing using 4-Runs/Vector methods
- 2-plane inbound/overhung balancing
- Real-time waveform/spectrum (FFT) of vibration signal
- Polar plots of trial and correction weights
- Angular mass distribution calculator
- Permissible residual imbalance determination
- Weight removal calculator
- One-button calibration for accelerometer input
- Balancing report generation with email sharing and wireless printing

Included in the Package:

- iPad (optional and customizable)
- 2-Channel DAQ box with 2-Ch simultaneous measurement
- Industrial single channel accelerometer with magnet base
- Laser tachometer with custom cable
- Custom iPad case for protection and to hold the DAQ box
- iRotorBalancer iPad app for rotor balancing
- iVibraMeter iPad App for overall vibration and certificate tests
- VibraTestPro iPhone/iPad App for vibration analysis
- Several other calculator apps as vibration reference tools



iPad Vibration Balancer	Specification
Sensitivity	25 mV/g
Measurement Range	±50 g
Frequency Range	30 - 900,000 cpm
Resonance Frequency	1860 kcpm
Number of Inputs	2 channels
Sampling Rate	44100 Hz
Power Supply	From iPad
Magnetic Base Pull Force	85 lbf
Acccelerometer Cable	10 feet



Motionics, LLC 8500 Shoal Creek Blvd Building 4 Suite 209 Austin, TX 78757 www.motionics.com info@motionics.com The software & hardware can be customized. Contact Motionics for details.



Single-Channel Vibration Kit



Motionics Single-Channel Vibration Kit is a low-cost yet effective solution for performing vibration test on the fly. It consists of an advanced digital accelerometer connecting to an iPhone/iPad along with iOS vibration apps.

The digital accelerometer is piezoelectric based, which guarantees accurate measurement and broad-frequency response. It integrates a 24-bit internal ADC, hence data is directly passed through lightning port on iPhone/iPad, eliminating the need of an external DAQ box. Calibration information is stored onboard and automatically used to calibrate input signal, no extra calibration procedure is required. Single-Channel Vibration Kit includes VibraTestPro App and iVibraMeter app. VibraTestPro is the go-to App to measure vibration on iPhone and iPad. It provides comprehensive vibration analysis features such as real-time waveform & spectrum viewer, ISO10816 vibration meter, raw signal recording and so on. The user can also use the iVibraMeter App on iPad for a quick overall vibration tests of multiple common machines such as pumps, motors, spindles, etc. with rapid PDF report generation capability.

Included in the Package: Digital Accelerometer x1

- iVibraMeter App (iPad) x1
- 85 lbf Magnet Base x1
- •
- Accelerometer Cable Accessory x1
- Protective Carrying Case x1
- VibraTestPro App (iPhone/iPad) x1
- iPad with Industrial Protective Case (optional)

App Features:

- Vibration meter with ISO10816 severity indicator
- Interactive real-time waveform and spectrum viewer
- Customizable graph appearance: background color, line color, line thickness, grids
- Velocity and acceleration readings (metric & imperial)
- Peak cursor with auto peak detection and manual selection Distance cursor, harmonic cursor and sideband cursor
- Vibration raw signal recording and saving in local database
- Vibration signal export in CSV
- Plant-Machine-Test point structure for easy data management
- Customizable standard for severity indicator
- PDF test report with plant map, images, signature & notes



iPad Vibration Balancer Specification Measurement Range ⊠20 g pk Frequency Range (3dB) 54 - 900,000 cpm Non-Linearity ≤ 2% Operating Temperature -10 °C to +70 °C 44100 Hz Sampling Rate Internal ADC 24 bits Magnetic Base Pull Force 85 lbf





The software & hardware can be customized Contact Motionics for details

© 2022 Motionics, LLC, All rights reserved. D3



10.205

0





Ē <u>نې</u> •••

(iPad/iPhone)

Shale Shaker Vibration Test Kit



Motionics shale shaker vibration Test kit is an iPad-based vibration analyzer specialized for shale shakers.

This kit comes with two accelerometers with magnetic bases that can be attached to a test point to measure vibrations in two directions. Accelerometer signals are acquired through the 2-Channel DAQ mounted on the back of the iPad and passed to the Shale Shaker App through iPad data port.

In the Shale Shaker App, users can see 2-Channel vibration spectrum, waveform and G Motion X-Y orbit plots. Vibration peak and RMS values can be recorded and saved to a test report. PDF reports are saved in local database and can be exported. The kit also comes with Motionics VibraTestPro App iPhone & iPad. Using this App, this kit can be used as a 2-Ch vibration analyzer with vibration analysis features such as real-time waveform & spectrum viewer, ISO10816 vibration meter, raw signal recording, etc.

Features:

- 2-Channel DAQ box with 2-Ch simultaneous measurement x1
- Industrial single channel accelerometer with magnet base x2
- 3ft coiled accelerometer cable (extends to 10ft) x2
- Custom iPad case for protection and to hold the DAQ box x1
- Shale Shaker iPad App for shaker vibration analysis x1
- iVibraMeter iPad App for overall vibration and certificate tests x1
- VibraTestPro iPhone/iPad App for vibration analysis x1
 - iPad (optional and customizable)



Shale Shaker	Specification
Sensitivity	25 mV/g
Measurement Range	±50 g
Frequency Range	30 - 900,000 cpm
Resonance Frequency	1860 kcpm
Number of Inputs	2 channels
Sampling Rate	44100 Hz
Operating Temperature	0-50 °C
Magnetic Base Pull Force	85 lbf
Acccelerometer Cable	10 feet

App Features:

- Two channel data acquisition
- G Readings: vertical, horizontal and resultant
- Real-time vibration waveform
- Wide range FFT spectrum
- X-Y plot (G Motion Plot)
- A-1 plot (G iviotion Plot

- Peak/RMS vibration selection
 PDF Test report with plots ma
- PDF Test report with plots, map, machine picture, signature and custom notes
- Local database and test report manager
- Export PDF report through E-mail and air-print



Motionics, LLC 8500 Shoal Creek Blvd Building 4 Suite 209 Austin, TX 78757 www.motionics.com info@motionics.com The software & hardware can be customized. Contact Motionics for details.



ShakerWatch Wireless Vibration Analyzer for Shakers



ShakerWatch by Motionics is an advanced iPad-based vibration measurement and analysis tool for vibratory screens and shale shakers. ShakerWatch features a tri-axial accelerometer with magnetic base that can be attached to any test point on a shaker to measure and analyze vibration motion in three directions. Wireless Bluetooth connectivity enables safer and more efficient motion and vibration tests for shakers. Innovative wireless technology eliminates wiring and connectors to increase safety, ease of use, and durability.

The ShakerWatch iPad app performs X-Y orbit tests with auto-calculated RPM, G-force, stroke and angle. Bump test, side displacement and support structure vibration tests can be also be performed within the app.

ShakerWatch

WIRELESS VIBRATION ANALYZER FOR SHAKERS

ShakerWatch Accelerometer	Specification
Accelerometer Type	Tri-Axial
Measurement Range	±40g
Resonant Frequency	5500Hz
Sampling Rate	500-4000Hz (adjustable)
Data Block Size	256-4096 samples (adjustable)
Connectivity	Bluetooth Low Energy
Data Transmission Range	98ft (30m)
Weight	0.380lb (172g)
Dimensions	3.2"W x 2.0"D x 1.6"H (81mm x 52mm x 40mm
Working Temperature	-4 to 140°F (-20 to 60°C)
Dust/ Water Resistance	IP66
Magnetic Base	Round 35lb (15.88kg)
Battery	Lithium CR2477 3VDC
Battery Life	500hrs
Software Compatibility	iPadOS



Bluetooth

Low Energy











Report Generation

Included with purchase:

- ShakerWatch Wireless Accelerometer
- CR2477 Coin Battery x2
- Protective ShakerWatch Case
- User Guide
- ShakerWatch iPad App

Optional Extras

- Extended 3 Year Warranty
- iPad with Protective Case

ShakerWatch App Features:

Wireless Connection

- Wireless Tri-axial Vibration Signal Transmission
- Automatic Sensor Tilt Angle Compensation
- Orbit Test with Auto RPM, G-Force, Stroke and Angle Calculations
- Interactive Vibration Waveform, FFT Spectrum, and X-Y Orbit Plot
- Color-Coded Side Displacement Tests
- · Bump Test with Auto Major Frequency Detection
- Attach Test Photos and Notes During Tests
- Auto PDF Test Report Generation
- Local Database and Test Record Manager
- Export Test Data in Excel File and PDF Test Report



Motionics, LLC Austin, TX 78757

The software & hardware can be customized Contact Motionics for details. © 2025 Motionics, LLC. All rights reserved.

ShakerWatch with Tri-Axial Accelerometer

www.motionics.com info@motionics.com

D5



VibeSense Wireless Vibration Analyzer



Motionics VibeSense wireless accelerometer is a wireless sensor solution for condition monitoring of rotating machinery. It packs a piezoelectric accelerometer, a powerful onboard processor, and a Bluetooth Low Energy radio module.

The piezoelectric accelerometer sensor guarantees accurate acceleration measurement in various industrial applications. The powerful processor provides onboard calculation capability for FFT, RMS calculation, peak finding, as well as raw signal collection with user-configurable sampling rates and data block sizes. The Bluetooth Low Energy module enables communication with smart devices to allow the user to send commands to the accelerometer to initiate data collection for onboard processing or transmitting back for further analysis on a phone or tablet. Without the hassle of a data cable, measurements can be made more efficiently and safely.

VibeSense runs on a rechargeable Li-Po battery with Qi wireless charging enabled.

Connecting the laser tachometer through the connector on top turns VibeSense accelerometer into a novel rotor balancing tool. With the step by step guide in our mobile app, anybody can accomplish single-plane and two-plane rotor balancing effortlessly.





シ

0

Rechargeable with wireless charging

-= Uu.

E

•••



Motors and Shuft Photos

0.675







ViheSe

Included in the Package:

- VibeSense Wireless Accelerometer
- Qi Wireless Charging Pad
- 1/4-28 Accelerometer Mounting Set Screw
- Magnet Key for Sensor on/off Switch
- Protective Carrying Case
- VibraTestPro iPhone & iPad App (for vibration analysis)

Optional:

- iPad Mini with Industrial Protective Case
- Two Pole 85 lbs Magnetic Base
- Adjustable Laser Tachometer Sensor (for balancing)
- Laser Tachometer Extension Cable (for balancing)
- Laser Tachometer Holder (for balancing)

- Wireless sensor connection via Bluetooth Low Energy
- iPhone & iPad compatibility
- . Vibration meter with ISO10816 (customizable) severity indicator
- Interactive real-time waveform and FFT spectrum viewer
- Customizable graph appearance: background color, line color, line thickness, grids
- Velocity and acceleration readings (metric & imperial)
- Auto Peak detection cursor, manual cursor, and top 5 peaks detector
- Distance cursor, harmonic cursor and sideband cursor
- Vibration raw signal recording with adjustable sampling rate and data length
- . Vibration signal export in CSV and WAV formats
- Vibration signal local saving
- Plant-Machine-Test point structure for easy data management

VibeSense	Specification
Accelerometer Type	Piezoelectric
Sensitivity	100 mV/g
Measurement Range	±20 g
Frequency Range (±3 dB)	0.32 - 10,000 Hz
Resonant Frequency	25,000 Hz
ADC	16 bits
Sampling Rate	200 to 20,000 Hz
Date Block Size	256 to 16,384 samples
Spectrum Range	1 to 10,000 Hz
Wireless Data Transmission Range	Up to 20 m
Operating Temperature	-20 - 60°C
Dust/Water Protection	IP66
Battery	Rechargeable Li-Po battery
Charging	Qi Wireless Charging

Motionics, LLC 8500 Shoal Creek Blvd Building 4 Suite 209 Austin, TX 78757 www.motionics.com_info@motionics.com

The software & hardware can be customized. Contact Motionics for details.





VibeSense Wireless Rotor Balancer



VibeSe

Motionics VibeSense wireless balancer is a novel rotor balancing tool. It consists of VibeSense wireless accelerometer and a miniature laser tachometer sensor.

VibeSense wireless accelerometer utilizes a piezoelectric accelerometer to guarantee accurate acceleration measurement. It has a powerful onboard processor to process both accelerometer and tachometer signals, perform FFT, and calculate vibration and phase readings for rotor balancing. Wireless signal transmission is achieved by Bluetooth Low Energy that allows users to directly communicate with the sensors and perform balancing work on a smart phone or tablet.

The miniature laser tachometer can be attached to the VibeSense wireless accelerometer through the connector on top for phase measurement. With the included right-angle adapter, users can easily adjust and target the laser at any spot on the testing rotor. An extension cable can also be used to extend the laser reach.

Both single-plane and two-plane, inbound and overhung balancing are supported in our mobile app. With the animated step-by-step guide, anybody can accomplish rotor balancing work effortlessly. After balancing, a PDF report will be generated and saved for further assessment. VibeSense runs on a rechargeable Li-Po battery with Qi wireless charging enabled.







wireless charging



f



VibeSense



Single-plane balancing (4-runs & 2-channel methods)

Included in the Package:

- VibeSense Wireless Accelerometer
- Adjustable Laser Tachometer Sensor
- Laser Tachometer Extension Cable
- Laser Tachometer Holder
- Qi Wireless Charging Pad
- 1/4-28 Accelerometer Mounting Set Screw
- Magnet Key for Sensor on/off Switch
- Protective Carrying Case
- VibeSenseRB iPad App (for rotor balancing)
- add VibraTestPro iPhone & iPad App (for vibration analysis) Optional:
- iPad Mini with Industrial Protective Case

Specification

Two-Pole 85-lbs Magnetic Base

Software Features:

Wireless sensor connection via Bluetooth Low Energy

⊜

- Multiple sensor connectivity
- . Supports single-plane and two-plane balancing
- Supports inbound and overhung
- Step-by-step guide for balancing
- Polar plot for vibration and trial/correction weights
- Angular mass distribution calculator
- Weight removal calculator
- Permissible residual imbalance determination
- . ISO18016 based vibration meter
- Vibration raw signal recording
- Vibration signal FFT spectrum viewer
- Balancing PDF report

Accelerometer Type	Piezoelectric
Sensitivity	100 mV/g
Measurement Range	±20 g
Frequency Range (±3 dB)	0.32 - 10,000 Hz
Resonant Frequency	25,000 Hz
ADC	16 bits
Sampling Rate	200 to 20,000 Hz
Date Block Size	256 to 16,384 samples
Wireless Transmission Range	Up to 20 m
Operating Temperature	-20 - 60°C
Dust/Water Protection	IP66
Battery	Li-Po battery w/Qi Wireless Charging
Laser Tachometer Attachment	Attachable 360° Adjustable
Laser Sensor	Class Illa Wavelength 650nm

Motionics, LLC 8500 Shoal Creek Blvd Building 4 Suite 209 Austin, TX 78757 www.motionics.com_info@motionics.com

The software & hardware can be customized Contact Motionics for details

© 2022 Motionics, LLC, All rights reserved.



D7



VibeSense Tri-Axial Wireless Vibration Accelerometer



*

Motionics VibeSense Tri-axial Wireless accelerometer is a wireless, rechargeable sensor solution for condition monitoring of vibration in machineries. It packs MEMS accelerometer, a powerful onboard processor, and a Bluetooth Low Energy radio module.

The MEMS accelerometer sensor guarantees an accurate and simultaneous acceleration measurement in three orthogonal directions that can be used for various industrial applications. The powerful processor empowers raw signal collection with a user configurable sampling rate and data block size. The Bluetooth Low Energy module enables bidirectional communication to allow the user to send commands to the accelerometer to initiate data collection and the accelerometer to transmit back raw signal for further analysis on a phone or tablet. Without the hassle of data cables, measurements can be made more efficiently and safely.

VibeSense Tri-axial accelerometer runs on a rechargeable Li-Po battery with a 5VDC rechargeable option.



iPhone & iPad compatibility

•

.



0000000000

0

industrial e

Software Features - VibraTestPro (iPhone and iPad)

Vibration meter with ISO10816 (customizable) severity indicator Interactive vibration time waveform and FFT spectrum viewer Velocity and acceleration readings (metric & imperial)

Auto peak detection cursor, manual cursor, and top 5 peaks detector

Vibration signal raw data saving and exporting in CSV and WAV formats

Automatic easy test report templates for motors, pumps, and other standard machines

RMS log and record option with adjusable rates in single and continous modes

Plant-Machine-Test point structure for easy data management

Software Features - MultiGage (iPhone, iPad and Android) Overall RMS vibration readings in acceleration and velocity from either of X, Y or Z

Three axis simultaneous reading for X, Y and Z Adjustable sampling rate and window size

Distance cursor, harmonic and sideband cursors

Vibration signal local saving within the App



0.675







Included in the Package:

- VibeSense Wireless Tri-axial Accelerometer
- 1/4-28 Accelerometer Mounting Set Screw
- Protective Carrying Case USB to 5VDC charging cable and 110VAC USB Wall Adapter
- Software License
 - VibraTestPro App (iPhone and iPad) - MultiGage App (iPhone, iPad and Android)

Optional:

Two Pole 85 lbs Magnetic Base

VibeSense	Specification
Accelerometer Type	MEMS
Wireless Data Transmission Range	Up to 100 ft (30m)
Measurement Range	±40 g
Frequency Range (±3 dB)	1 - 1000 Hz
Resonant Frequency	5500 Hz
Date Window Size	256 to 4096 samples
Sampling Rate	250 to 4000 Hz
Dust and Water Protection	IP66
Accelerometer Weight	0.2 lb (90g)
Mounting Screw	1/4-28
Operating Temperature	-4 to 140 °F
Dust/Water Protection	IP66
Battery	Rechargeable Li-Po - 80 hour Life

Motionics, LLC 8500 Shoal Creek Blvd Building 4 Suite 209 Austin, TX 78757 www.motionics.com_info@motionics.com

The software & hardware can be customized. Contact Motionics for details.

© 2024 Motionics, LLC, All rights reserved.





D8

VibeSense Wireless Rotor Balancer



VibeSe

Motionics VibeSense wireless balancer is a novel rotor balancing tool. It consists of VibeSense wireless accelerometer and a miniature laser tachometer sensor.

VibeSense wireless accelerometer utilizes a piezoelectric accelerometer to guarantee accurate acceleration measurement. It has a powerful onboard processor to process both accelerometer and tachometer signals, perform FFT, and calculate vibration and phase readings for rotor balancing. Wireless signal transmission is achieved by Bluetooth Low Energy that allows users to directly communicate with the sensors and perform balancing work on a smart phone or tablet.

The miniature laser tachometer can be attached to the VibeSense wireless accelerometer through the connector on top for phase measurement. With the included right-angle adapter, users can easily adjust and target the laser at any spot on the testing rotor. An extension cable can also be used to extend the laser reach.

Both single-plane and two-plane, inbound and overhung balancing are supported in our mobile app. With the animated step-by-step guide, anybody can accomplish rotor balancing work effortlessly. After balancing, a PDF report will be generated and saved for further assessment. VibeSense runs on a rechargeable Li-Po battery with Qi wireless charging enabled.







wireless charging



f



VibeSense



Single-plane balancing (4-runs & 2-channel methods)

Included in the Package:

- VibeSense Wireless Accelerometer
- Adjustable Laser Tachometer Sensor
- Laser Tachometer Extension Cable
- Laser Tachometer Holder
- Qi Wireless Charging Pad
- 1/4-28 Accelerometer Mounting Set Screw
- Magnet Key for Sensor on/off Switch
- Protective Carrying Case
- VibeSenseRB iPad App (for rotor balancing)

Specification

- add VibraTestPro iPhone & iPad App (for vibration analysis) Optional:
- Two-Pole 85-lbs Magnetic Base

Software Features:

Wireless sensor connection via Bluetooth Low Energy

⊜

- Multiple sensor connectivity
- . Supports single-plane and two-plane balancing
- Supports inbound and overhung
- Step-by-step guide for balancing
- Polar plot for vibration and trial/correction weights
- Angular mass distribution calculator
- Weight removal calculator
- Permissible residual imbalance determination
- . ISO18016 based vibration meter
- Vibration raw signal recording
- Vibration signal FFT spectrum viewer
- Balancing PDF report

Accelerometer Type	Piezoelectric
Sensitivity	100 mV/g
Measurement Range	±20 g
Frequency Range (±3 dB)	0.32 - 10,000 Hz
Resonant Frequency	25,000 Hz
ADC	16 bits
Sampling Rate	200 to 20,000 Hz
Date Block Size	256 to 16,384 samples
Wireless Transmission Range	Up to 20 m
Operating Temperature	-20 - 60°C
Dust/Water Protection	IP66
Battery	Li-Po battery w/Qi Wireless Charging
Laser Tachometer Attachment	Attachable 360° Adjustable
Laser Sensor	Class IIIa Wavelength 650nm

Motionics, LLC 8500 Shoal Creek Blvd Building 4 Suite 209 Austin, TX 78757 www.motionics.com_info@motionics.com

The software & hardware can be customized. Contact Motionics for details.

© 2022 Motionics, LLC, All rights reserved.



iPad Mini with Industrial Protective Case

Wireless Current Measurement Kit



Wireless current measurement kit consists of an AC current transducer and a WiClamp base. It can measure the TRUE RMS value of current in a cable and transmit measurement results wirelessly via Bluetooth Low Energy.

Our free iPad app, BlueClamp, can simultaneously receive and display data from multiple WiClamp bases, turning the iPad into a multi-line current monitoring device.

This kit also includes a USB charging cable and a 110 VAC USB adapter.





Current Measurement Kit	Specification
Measurement Range	1-115 A RMS (10 mV/A), 1-400 A RMS (1 mV/A)
Resolution	0.3A (10 mV/A), 3A (1 mV/A)
Transmission Range	Up to 10 m
WiClamp Base Dimension	2.36 x 1.42 x 0.59 in
Transducer Dimension	2.52 x 5.63 x 1.18 in
Working Voltage	600 V CAT II
Operating Temperature	0 - 50 °C
Battery	350 mAh
Charging	5 VDC USB

BlueClamp App Features (iPad):

- Available now on the App Store for free
- Multiple clamp connectivity, up to 3 devices (can be upgraded to 10 devices on request)
- Real-time readings in both tables and plots
- Max, Min, Average
- Individual clamp adding/removing during measurement
- Individual plot control of each clamp
- Individual clamp calibration and preference setting
- Simulation mode for demonstration
- Multiple sampling frequencies: 2, 30, 60 seconds/sample
- Pause/resume during measurement
- Data export in CSV file
- Custom PDF report generation
- Add company logo and machine image in report
- Auto populate test date and test results in report
- User signature and custom note
- Facility location/map in report
- PDF report wireless printing and email export

Motionics, LLC 8500 Shoal Creek Blvd Building 4 Suite 209 Austin, TX 78757 www.motionics.com info@motionics.com The software & hardware can be customized. Contact Motionics for details.



iWMD Wireless Measurement Device



iWMD is a series of wireless measurement devices with high resolution. It allows the user to measure various sensor readings and communicate wirelessly with smart devices such as the iPad via Bluetooth Low Energy.

Applications:

- Remote Monitoring
- Power, Current & Voltage Monitoring
- Pressure Measurement
- Temperature Sensing (RTE, Thermocouple, Infrared)
- Crankshaft Deflection Detection
- Rotor Runout Assessment
- Wireless Metrology
- Flow measurement
- Oil characteristics sensing



Current Measurement Kit	Specification
Resolution	10, 5, 1, 0.2, 0.1 mV
Wireless Data Rate	1-1,000 Hz
Transmission Range	Up to 10 m
Input Range	0 - 10, 0 - 5, 0 - 1.1 VDC
Dimension	5.04 x 3.07 x 1.06 in
Sensor Supply Voltage	5-20 VDC
Antenna Extension	Magnetic Base
Working Temperature	0 - 50 °C
Battery	2,500 mAh
Charging	5 VDC USB and 110 VAC



App Features:

- Multiple wireless sensor connectivity
- Display acquired data in real-time graph
- Record data, CSV and SQLite export
- Quick custom PDF report with image, signature, map and GPS location
- Export via email, cloud, and USB cable
- Zoom, pan, max, min, and average



Motionics, LLC 8500 Shoal Creek Blvd Building 4 Suite 209 Austin, TX 78757 www.motionics.com info@motionics.com The software & hardware can be customized. Contact Motionics for details.

© 2022 Motionics, LLC. All rights reserved.



Scan to see product page

E2



Visit our website for detailed information:

www.motionics.com



Visit our online store for ordering:

https://store.motionics.com/



Conact us for your custom project:

+ 1 (205) 264 - 1896

info@motionics.com



Smart Tools for Measurement, Monitoring, and Diagnostics of Machinery

Motionics, LLC 8500 Shoal Creek Blvd Austin, TX 78757 www.motionics.com info@motionics.com The software & hardware can be customized. Contact Motionics for details.