

## M-HAS Portable Diagnostics



### KEY FEATURES

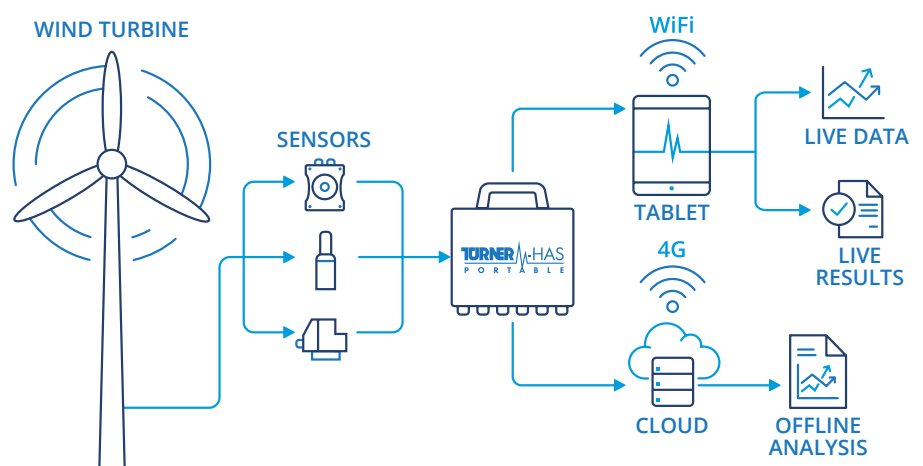
- Ruggedised IP67 Enclosure
- Acquire data from 8 sensors simultaneously
- Pre-configured tests for rapid deployment and ease of use
- Re-chargeable Lithium-ion battery preventing the need to plug in for short tests
- Built-in cellular router for 3/4G communications
- Built in/removable tablet for test set-up and viewing of results
- Data can be viewed live or accessed via the cloud for offline analysis

Turner Icení's portable condition monitoring system has been designed to allow rapid deployment in order to carry out on-demand diagnostics and testing.

Built with wind turbine technicians in mind, it does not require the user to have extensive expertise in vibration monitoring, data acquisition or analysis. Built into a single ruggedised enclosure, M-HAS Portable contains all the hardware needed to perform a range of tests within the wind turbine and then allow the results to be viewed locally or available on the cloud for remote expert analysis.

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# Specifications

## Main Unit

Hardware	
Power Supply	100 to 240Vac
Battery	24Vdc, 10000mAh
I/O	8 x (M12 4 core)(variable I/O configurations), 4 x (USB), WiFi, Bluetooth
Tablet	Samsung Galaxy Tab A
Software	
Interface	Remote tablet control
Data storage	Local server and cloud Storage
Acquisition	Periodic samples during test period
Analysis	Time and Frequency domain analysis
Physical	
Case	Ruggedised, watertight, lockable
Size of Unit	55x45x25 cm
Weight	12 Kg
Temperature Range	-10 - 50 °C
Humidity Range	35 - 85% RH
Seal Rating	IP67

## Sensor Options

IFM VSP001	
Frequency Range	2 – 10000 HZ
Measuring Range	-50 – 50 g
Mounting	Magnetic Mounts
Max Sensors	4 - 8
Accuracy	± 5%
Measuring Sensitivity	100 mV/g
IFM VNB211	
Frequency Range	0 - 6000HZ
Measuring Range	0 – 25g
Max Sampling Rate	6000 Hz
Mounting	Magnetic mounts
Max sensors	4
Accuracy	± 3%
IFM IGS232 (RPM)	
Operating distance	0 – 6.48 mm
Measurement Principle	Induction
Mounting	Magnetic mounts
Max sensors	1
Keyence LR-ZB90CB (RPM)	
Operating distance	25 – 90 mm
Measurement Principle	Laser
Mounting	Magnetic mounts
Max sensors	1

## Wireless Sensors

Sensor Works BluVib	
Frequency Range	0 – 25600 Hz
Sample Length	64 - 2768
Measurement Range	-20 – 20 g
Max Sampling Rate	25.6 KHz
Mounting	Magnetic mounts

# TURNER ICENI

FOR FURTHER INFO  
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