



Liberator 604™ Specification Sheet

Feature Summary

- **Collects acceleration, velocity and displacement readings** (overall/FFT/Time waveform) and **demodulation readings**.
- Communicates information between InspectMT™ and the Liberator 604™ via **Wi-Fi wireless link** - no cable connection required.
- Designed for **low power consumption**, drawing less than 1.25 W while collecting data so device can be used all day on a single charge.
- Comes with an **accelerometer**, but device can be used with any standard industrial accelerometer or can be hooked into switchboxes to read data from permanently mounted sensors.
- A high level of integration combined with its low power consumption makes the Liberator 604™ an ideal partner for InspectMT™ rugged mobile devices.

A Wireless Vibration Option for MAINTelligence™ and InspectMT™

Increase the value of your Asset Basic Care program as well as your Predictive Maintenance programs with MAINTelligence™, InspectMT™, and the all new Liberator 604™. Designed with ease of use in mind for operators, the quick and straightforward route-based data collection provides detailed vibration data for the vibration analyst.

The direct wireless interface transfers the data seamlessly to MAINTelligence™, where the data can be processed through the world-class vibration analysis package by a vibration specialist or by taking advantage of the Condition Assessment Module for an automatic diagnosis.

The Liberator 604™ gives any mobile device with InspectMT™ software the ability to collect inspection route data, including velocity FFT and demodulation readings.

By communicating with MAINTelligence™ through wireless Wi-Fi™ technology, the user downloads one or more routes from MAINTelligence™ to InspectMT™, immediately indicating where it

A Wireless Single Channel Vibration Data Collector

Specifications

- Dimensions (not including connectors)
108 x 57 x 26 mm (2.25 x 1.03 x 4.25 in.)
- 24-bit A/D converter with built-in anti-aliasing protection
- 105 kSamples / second, max sample rate
- 113 dB dynamic range
- ICP® accelerometer power
- Wi-Fi 802.11 a/b/g/n communications, >100-meter capability (330ft) Outdoors line of site
- Internal battery for up to 12 hours continuous operation
- Onboard DSP with built-in functions
- Programmable digital biquad filters
- 2000mAh Rechargeable Lithium-Ion (factory replaceable)
- +5 V & +12 V sensor power outputs
- Operating temperature: -20°C to +50°C (-4°F to 122°F)
- 40,000 sample (24-bit)/channel onboard FIFO memory
- Weight 185 gm (6.5 oz.)
- IP 67
- 6400 lines of resolution



needs to be used to collect vibration data. Upon route completion, the vibration readings are uploaded into MAINTelligence™ for alarming and analysis.

Operators can use InspectMT™ on rugged mobile devices to collect all types of process data and visual inspections, as well as the Liberator 604 for detailed vibration data and the TPI 377 BLE for wireless temperature data acquisition all in one integrated route.



Design Maintenance Systems Inc.
38 Fell Avenue, Suite 201
North Vancouver, BC, Canada V7P 3S2

Toll Free 1.800.923-3674
Tel 1.604.984-3674
www.desmaint.com