



WI-814 Wireless Dynamic Signal Test and Analysis System

DESCRIPTION	FEATURES	SPECIFICATIONS	SYSTEM CONFIGURATION	SOFTWARE	MODULES / ACCESSORIES
<p>WI-814 Wireless dynamic signal test and analysis system, which is suitable for industrial sites with highly portable, built-in high sensitivity sensor and lithium battery pack dynamic signal test and analysis system.</p> <p>It uses wireless transmission mode to achieve wireless communication with the computer.</p> <p>In the future, the data can be displayed and analyzed in real time through tablet computers or mobile phone APP software, which can quickly provide a basis for the determination of the working status of various operating equipment in industrial sites.</p>	<p>Built-in highly sensitive IEPE acceleration sensor for accurate measurement of vibration signals.</p> <p>Small size, exquisite structure, with magnetic seat, easy to install and use on site.</p> <p>The battery charges quickly and can be charged via a charging cable using a universal charger or a mobile power supply.</p> <p>Suitable for heavy rain, humidity, dust, explosive, with corrosive gas and other harsh industrial site.</p> <p>In the future, matching APP software suitable for tablet computers or mobile phones can be used to complete single-channel precision fault diagnosis and bearing envelope.</p>	<p>Number of Input Channel 1 channel/DAQ unit</p> <p>Nonlinearity 1.00%</p> <p>Noise <0.1m/s²</p> <p>Measuring Range ±3.6g, ±12g, ±36g</p> <p>Protection Class IP65</p> <p>Freq. Response 10Hz – 2kHz</p> <p>A/D Converter 24-bit $\Sigma\Delta$</p> <p>Max. Sampling rate 12.8kHz</p> <p>Comm. Mode WiFi</p> <p>Comm. Distance 10m (Visual)</p> <p>Power Supply Lithium battery, over 4h of battery life (fully charged)</p> <p>Battery Capacity 4Wh</p> <p>Dimensions ϕ45mm×85mm (Exclu. antenna)</p> <p>Weight Approx. 330g (Exclu. antenna)</p> <p>Environmental Conditions</p> <p>Operating Temperature - 10 – 60°C</p> <p>Operating Humidity 20 – 90%RH@40°C</p> <p>Storage Temperature - 20 – 60°C</p> <p>Storage Humidity 90%RH@60°C</p> <p>Vibration Frequency cycle range: 5Hz – 55Hz – 5Hz Drive amplitude (peak): 0.19mm Sweep frequency: \leq 1Oct./min Duration of resonant: 10min Vibration direction: x, y, z</p>	<p style="text-align: center;">Figure 1 Single System Block Diagram(WIFI)</p> 	<p>DE-BPS Basic Platform Software</p> <p>Running on XP/Win7/Win8/Win10 operating system Parameters setting, Function control, Real-time/post-acquisition analysis, data browsing, cursor readouts, scaling curve, data management and simple processing, report generation, long-term continuous data recording, etc.</p> <p>AP01 Android Software App (Optional)</p> <p>Mobile phone control and analysis Parameter setting, sampling control, data management, etc. Time domain & amplitude domain analysis Frequency domain analysis based on FFT</p> 	<p>WI-814 DAQ Unit</p> <p>Built-in piezoelectric acceleration sensor; Wireless vibration measurement using WiFi; Measuring range: 3.6g, 12g, 36g shift. The maximum frequency of continuous sampling can reach 12.8kHz. Wireless transmission distance of 10m. Intelligent lithium battery power supply. Work for four hours straight. Protection class: IP65</p> 