



DE-844W Dynamic Signal Analyzer

DESCRIPTION	FEATURES	SPECIFICATIONS	SYSTEM CONFIGURATION	SOFTWARE	MODULES / ACCESSORIES
<p>The DE-844W Dynamic Signal Analyzers is a multi-channel simultaneous sampling dynamic signal test and analysis system, which is highly portable and suitable for industrial site.</p> <p>DE-844W can be used for remote monitoring via WIFI, and used for condition monitoring and fault diagnosis of rotating machinery such as pumps, fans, compressors and motors.</p>	<p>Compact, portable, easy to use, suitable for industrial sites.</p> <p>Wireless WiFi transmits signals to realize remote monitoring.</p> <p>System Control and signal analysis software can run on tablets.</p> <p>Built-in 24V/4mA biasing circuit, support IEPE sensors. Independent 24-bit A/D converters per channel with selectable sampling rate of up to 128kHz.</p> <p>Built-in low-pass filter, high-pass filter and Anti-aliasing filter.</p> <p>Support hardware quadratic integration</p>	<p>Number of input channels 4 channels + 1 Tacho channel</p> <p>Input Coupling GND, Diff-DC, Sin-DC, AC, IEPE</p> <p>Input Voltage Range $\pm 0.1V, \pm 1V, \pm 10V, \pm 30V$</p> <p>Indication Error 0.5% of F.S.</p> <p>Nonlinearity 0.1% of F.S.</p> <p>LPF</p> <p>Cut-off Frequency: 30Hz, 300Hz, 3kHz, PASS</p> <p>Flatness: <0.1dB Within 1/2 of cutoff frequency</p> <p>Stop-band Attenuation: >-18dB/Oct.</p> <p>HPF</p> <p>Cut-off Frequency (-3dB\pm1dB) 0.3Hz, 1Hz, 3Hz, 10Hz</p> <p>Stop-band Attenuation: $\geq -6dB/Oct.$</p> <p>Communication WIFI and USB2.0</p> <p>A/D Converter 24 bits</p> <p>Freq. Response 0.4-50kHz (+0.5dB--3dB)</p> <p>Max. Sampling Rate 128kHz</p> <p>Anti-aliasing filter</p> <p>Cut-off Frequency 1/2.56 of sampling rate</p> <p>Stop-band Attenuation: $\geq -100dB/Oct.$</p> <p>Power Supply Lithium battery</p> <p>Dimensions 122x102x34mm</p> <p>Weight Typ. 402g</p> <p>Environmental Conditions</p> <p>Operating Temperature -20 to 60°C</p> <p>Operating Humidity 5 to 90 %RH@50°C</p> <p>Storage Temperature - 40 to 70°C</p> <p>Storage Humidity 90% RH 48h@60°C</p> <p>Vibration Frequency cycle range: 5-55-5Hz Drive amplitude (peak): 0.19 mm Sweep frequency: $\leq 1Oct/min$ Duration of resonant: 20min Vibration direction: x, y, z</p>	<p>Figure 1 System block diagram</p>	<p>DE-BSP Basic platform software 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) Mobile phone control and analysis Parameter setting, sampling control, data management, etc</p> <p>Time domain & amplitude domain analysis Frequency domain analysis based on FFT Download APP software through the QR code on the collector.</p>	<p>DT5640 Photoelectric Tachometer(Optional) Ingress Protection : IP65 Explosion-proof grade: Exib II BT4 Used for rotation measurement and order analysis.</p>