



WW-816D Wireless Cable Force Test & Analysis System

DESCRIPTION	FEATURES	SPECIFICATIONS	SYSTEM CONFIGURATION	SOFTWARE	MODULES / ACCESSORIES
<p>The WW-816D Wireless Cable Force Test & Analysis System, with use of independent distributed module structure, specially designed for the cable test of bridge structure.</p> <p>Expanded via wireless WIFI communication, the input signals of cable force of no more than 16 DAQ units can be measured and analyzed wirelessly by a single computer.</p> <p>WW-816D is widely used for the performance testing and analysis of various structure in a variety of fields such as civil engineering, bridge engineering, mechanical engineering.</p> <p>Measurement of fundamental frequency and cable force of cable-stayed bridge, suspension bridge, tied arch bridge and cable in construction.</p>	<p>Built-in high sensitive acceleration sensor, small and portable</p> <ul style="list-style-type: none"> Up to 16 DAQ units can be extended for parallel sampling Wireless WiFi communication for up to 200m of communication distance (Visual) The software-selectable sampling rate up to 1kHz Powered by intelligent management rechargeable lithium battery pack, up to 8h of battery life (Fully charged) Support the function of automatic and manual search of cable's vibration base frequency or frequency difference Support "One-button" visual parameter settings, and the working status of the channel can be displayed in real time during parameter setting <p>Application Conditions:</p> <ol style="list-style-type: none"> The fundamental frequency of the cable can be accurately measured The stiffness of the cable must not be excessive The slenderness ratio of the cable must not be less than 10 The fundamental frequency of the cable base is greater than 10 times the frequency of the cable <p>In the process of cable force test, if the cable measured does not meet the above conditions, the measurement results will have a large deviation.</p>	<p>Number of Input Channel 1 channel/DAQ unit, 16 DAQ units/computer</p> <p>Input Range 1g</p> <p>Indication Error <2% of F.S.</p> <p>A/D Converter 16 bits</p> <p>Freq. Response DC ~ 120Hz</p> <p>Sampling Rate 10Hz, 20Hz, 50Hz, 100Hz, 200Hz, 500Hz, 1kHz</p> <p>Communication Mode WiFi</p> <p>Communication Distance 200m (Visual)</p> <p>Power Supply Built-in lithium battery, 3.7V DC, 14Wh, 8h of battery life (Fully charged)</p> <p>Dimensions 94*56*26mm</p> <p>Weight Approx. 280g</p> <p>Environmental Conditions</p> <p>Operating Temperature -20°C to 60°C</p> <p>Operating Humidity 5 ~ 90%RH@50°C</p> <p>Storage Temperature -40°C to 70°C</p> <p>Storage Humidity 90%RH@40~60°C</p> <p>Vibration</p> <p>Frequency cycle range: 0Hz ~ 55Hz ~ 5Hz Drove amplitude (peak): 0.15mm Sweep frequency: <10Oct./min Duration of resonant: 20min Vibration direction: x, y, z</p>	<p>SYSTEM CONFIGURATION</p>	<p>SOFTWARE</p> <p>DE-BPS 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>APPI Android Software App (Optional) 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>MODULES / ACCESSORIES</p> <p>WW-816D DAQ Unit Wireless measurement through WiFi, communication distance up to 200 meters Built-in high sensitive acceleration sensor Measurement range up to 1g Software-selectable sampling rate up to 1kHz Built-in lithium battery pack for up to 8 hours of battery life (Fully charged)</p>