



WW-844DN Wireless Dynamic Strain Test & Analysis System

DESCRIPTION	FEATURES		SPECIFICATIONS	SYSTEM CONFIGURATION	SOFTWARE	MODULES / ACCESSO	ORIES
The WW-844D Wireless Dynamic Strain Test and Analysis System, with use of independent distributed module structure,	Small size, easy to carry, can use magnetic base fixed installation;	Number of Input Channel Full-scale Voltage Value	4 channles/DAQ unit, 16 DAQ units/computer ±0.05V, ±5.0V		DE-BPS Basic Platform Software Running on XP/Min7/Win8/Win10 operating system Parameters setting, Function control, Real-time/post-acquisition analysis,	WW-844D DAQ Unit 4 input channels Sampling rate up to 128kHz for simultaneous	1
specially designed for the strength and life evaluation test of large mechanical structure.	One-click switch between wired and wireless communication modes. Wired high-speed and	Nonlinearity Noise	0.10% ≤3µVRMS	Swan Gege	data browsing, cursor readouts, scaling curve, data management and simple processing, report generation, long-term continuous data recording,	sampling of all channels Wireless measurement through WiFi/Ethernet, communication distance up to 200 meters	
Expanded via wireless WiFi/Ethernet	communication cables, convenient and safe	Zero Drift	≈ 3μV/2h	Pull Wire Displacement Sensor	AP01 Android Software App (Optional) Mobile phone control and analysis	Software-selectable full bridge, half bridge, three- wire quarter bridge	
ommunication, the input signal of dynamic tress-strain of no more than 16 DAQ units	Directly installed near the measuring point,	Strain Measurement		Pub Rod Displacement Sensor WW-844D AP	Parameter setting, sampling control, data management, etc. Time domain & amplitude domain analysis	Programmable channel self-check function Bridge balance can be controlled wirelessly Built-in lithium battery for 7 hours of battery life (fully	
can be measured and analyzed in parallel and synchronously by a single computer.	wireless data transmission, strong anti-interference ability;	Full-scale Strain Value Indication Error	±3000με, ±30000με ≤0.5%±3με	Piezzresia/tve Acceleration Sessor	Frequency domain analysis based on FFT	charged) WW-844D-L DAQ Unit (Optional)	
WW-844D is widely used for the performance testing and analysis of	DC bridge, stable performance;	Self-balancing Range	±10000με		The same of the sa	4 input channels Sampling rate up to 50kHz for simultaneous	1
various structure in a variety of industries such as civil engineering, bridge	Standard 2.4G wireless WiFi communication technology, communication distance up to 200	Bridge Excitation		Magnetoelectric Velocity Sensor		sampling of all channels Wireless measurement through AP mode Software-selectable full bridge, half bridge, three-	
engineering, mechanical engineering, automotive industry, aerospace.	meters (visual), optional wireless relay can achieve long-distance wireless transmission;	Bridge Configuration Bridge Completion Resistors	Full, Half, Three-wire quarter bridge (Default 120 Ω) 120 Ω /350 Ω (Three-wire quarter bridge)	Figure 1 Single System Block Diagram(WIFI)		wire quarter bridge Programmable channel self-check function	
	Each computer can control 16 4-channel	Bridge Voltage	600~200000 (Half bridge/Full bridge) 2V, 5V DC	***************************************		Bridge balance can be controlled wirelessly Built-in lithium battery for 12 hours of battery life (fully charged)	1
	acquisition modules at the same time;	Freq. Response A/D Converter	DC = 40kHz 24-bit Σ-Δ	Strain Cage		IP65 environmental rating. GPS01 GPS Module (Optional)	
	Built-in 16G storage to ensure data integrity; Program control to switch the status setting of	Max. Sampling rate	128kHz	WW-84D		Used for synchronous sampling of multiple DAQ units	
	full bridge, half bridge, three-wire system 1/4 bridge	Sync. Mode Anti-aliasing filter	GPS / Beidou / Synchronous clock box	Put We Displacement Sensor			
	With strain bridge self-test function;	Cut-off Frequency	1/2.56 of sampling rate	Push Rod Displacement Sensor WW-844D WiFi Ethamot.		DT15211 Lithium Battery Module (Optional) Used for AP receiver power supply	
	Any measuring point can be set as the compensation measuring point;	Stop-band Attenuation	- 80dB/Oct.	Pazzensialiwa Acceleration Sensor		Built-in 8 lithium batteries with a capacity of 3400mA/3.7V	
	Optional GPS/ Beidou module can realize	Flatness Comm. Mode	<±0.1dB WiFi / Ethernet			Optional output of 5V/2A, 9V/2A, 12V/2A, 24V/1A	
		Comm. Distance	200m (Visual)	Magneroselectric Velocity Sensor 16 WW-844D			
	recording function (mass storage):	Power Supply	Lithium battery, over 7.5h of battery life (fully charged)			WW-844D-L Signal Input Cable 5-core shielded cable	
	Built-in large-capacity lithium battery to ensure	Dimensions Weight	163×104×35mm (Exclu. antenna) Approx. 600g (Exclu. antenna)			High strength PTFE cable, 4-channel per cable Default 5m cable	
	continuous working time of the instrument for more than 7.5 hours:	Environmental Conditions		Figure 2 Multiple System Block Diagram(WIFI)			
		Operating Temperature	- 10 ~ 50°C				
		Operating Humidity	20 - 90%RH@40°C				
		Storage Temperature	- 40 ~ 70°C				
		Storage Humidity Vibration	908RH24h@60°C Frequency cycle range: 5Hz – 55Hz – 5Hz Drive amplitude (peak): 0.19mm Sweep frequency: ≤10ct./min Duration of resonant: 10min Whotalon directors: v. v. z.				