



DE-864W Portable Dynamic Signal Analyzer

DESCRIPTION	FEATURES	SPECIFICATIONS		SYSTEM CONFIGURATION		SOFTWARE	MODULES / ACCESSORIES	
The DE-864W Portable Dynamic	Compact, portable, suitable for on-site testing	Number of lands about a	8 channles/card, 8 or 16 channels (optional) + 2 Tacho channels			DE-BSP Basic platform software	DE-864W DAQ card	0 0
Signal Analyzers is a multi-	Individual 24-bit A/D converters per channel with	Number of input channels	+1 channel GPS signal module			Running on XP/Win7/Win8/Win10 operating system.	8 input channels/Card, 8/16 channels(optional).	
functional, high-portable data acquisition system composed of a	selectable sample rate of up to 100kHz for high resolution data	Input Coupling	GND, Dif-DC, Sin-DC, AC, IEPE	Strain Gage]	Parameters setting, Function control, Real-time/post- acquisition analysis, data browsing, cursor readouts, scaling	Support IEPE, Dif-DC, Sin-DC, AC, GND Inputs. Input voltage range is up to ±10.0V, input strain range	
high-performance embedded computer, a 10.1-inch HD touch	Built-in 24V/4mA biasing circuit, used to acquire the output signal of IEPE acceleration sensors and microphones.		10ΜΩ+10ΜΩ	<u> </u>	-	curve, data management and simple processing, report generation, long-term continuous data recording, etc	is up to ±100000με.	
display, a SSD and a DAQ card.	Built-in bridge completion and Excitation	Input Voltage Range	±0.1V, ±1.0V, ±10.0V	Bridge Sensor		generation, long-term continuous data recording, etc	Selectable continuous sampling rates from 10Hz to 100KHz.	i i
DE-864W has abundant channel	Built-in LPF and anti-aliasing filter Support camera access, and realize synchronous analysis	Indication Error	<0.2% of F.S.	(h)			24-bit A/D converter.	
types and interfaces, which can	of data and video signal.	Nonlinearity	≤0.05% of F.S.	Acceleration Sensor				0 0
be flexibly connected to various types of sensors to test and	Support external GPS/ Beidou module access, and realize speed measurement, time calibration, longitude and latitude		≤3µV _{RMS}			A series of the		CHT-CHE OHT-CHIA
analyze a variety of physical	recording, trajectory drawing and so on.	CMR	≥100dB	—			DE-864W Host chassis Built-in high-performance embedded computer with	
quantities such as voltage, current, stress, strain, pressure,	Built-in CAN bus port, support import DBC format file, realize CAN data storage and analysis.	Strain Measurement		Magnetoelschric Velocity Sensor			dual-core processor, 2G memory, 9.7-inch HD touch display and 128G SSD.	
displacement, velocity, and acceleration.	Built-in tachometer/counter module, used for rotational speed measurement, order tracking analysis, angle		±1000με, ±10000με, ±100000με	Charge Output Charge Conditioner	F-WWWWWW		Windows OS.	
acceleration.	measurement and so on.	Indication error	0.5%±3µε	Acceleration Sensor			Built-in two 8-channel DAQ card slots, 2-channel CAN bus communication interface, 2-channel	
	Support EID and TEDS. Built-in rechargeable lithium battery and external	Nonlinearity	0.1% of F.S.	CAN Module	DE-864W	General Connects	tachometer/counter channel, and 1-channel GPS signal	and the second s
	backplane battery .	Zero Drift Strain gauge sensitivity	<3µɛ/2h				module interface. Built-in 6800mAh battery.	
		coefficient	1.0 ~ 3.0 (autocorrection)	GPS Module	-		265×195×80 mm, 3 kg,	
		Wire resistance correction range	0~100Ω				DE-864W-TC tachometer/counter module Number of channel: 2 input channels	041
		Bridge Excitation		Tachometer			Rotation rate measurement	
		Bridge Configuration	Full, half, three-wire quarter bridge	1			Range: 30 ~ 300000 rpm; Accuracy: < 0.05%±1r;	CH2
		Bridge Completion Resistors	120Ω/350Ω(Three-wire quarter bridge) 50Ω-10000Ω(Half bridge/Full bridge)	Encoder			Counter measurement Operating mode: support positive/reverse, pulse	
			2V, 5V, 10V, 24V DC Within 0.1%				accumulative count, pulse count per unit time	Tacho
			Max. 30mA				Frequency multiplication mode: 1/2/4 times Reset mode of pulse number: manual reset	Counter
		LPF					Timing range: 1 ~ 60000ms Power supply: 5VDC/50mA	
		Cut-off Frequency (-3dB±1dB)	30Hz 300Hz 3kHz PASS				GPS01 GPS Module(optional)	
		Flatness:	<0.1dB Within 1/2 of cutoff frequency				GPS update rate: 1Hz Position accuracy: 3m	
		Stop-band Attenuation:	>-18dB/Oct.				Velocity measurement accuracy: 0.1m/s	
		A/D Converter	24 bits				PPS accuracy: 20ns First positioning time (hot start): 1s	
		Freq. Response	DC~50kHz (+0.5dB~-3dB)				DE-864W-CAN CAN Module	
		Max. Sampling Rate	128kHz				Number of channel: 2 input channels Protocol: CAN2.0B	ан
		Anti-aliasing filter					Baud rate: 4800bps~1Mbps	CAN
		Cut-off Frequency	1/2.56 of sampling rate				Communication mode: duplex CAN bus for sending and receiving	
		Stop-band Attenuation:					Support dbc file import. Supports standard and extended frame formats.	
		-	>-120dB/Oct.				DT5857-8 Charge conditioner(optional)	
		Flatness:	±0.05dB Within analysis frequency range				Max. input charge: 10 ⁵ pC	
		Power Supply	Built-in 6800mAh battery, over 2h of battery life (Fully charged), 40W				Input Impedance: >10 ¹¹ Ω Amplifier output sensitivity: 0.1mV/pC or 10mV/pC	
			And, external Li-battery module(97Wh)				Indication error: <1%	
	1		265×197×100 mm				Noise: <10×10 ⁻³ pC Max. bandwidth: 0.3Hz ~ 300KHz(+0.5dB ~ -3dB)	
			Typ. 4500g				Distortion: <0.5% (Frequency < 30kHz)	
		Environmental Conditions	aa . aaaa				Dimensions: 50×20×80mm	
		Operating Temperature	-20 to 60°C					
			5 to 90 %RH @50°C				DT3811-8 Current loop conditioner(optional)	
		Storage Temperature	- 40 to 70°C				Number of channel: 1 input channel	
		Storage Humidity Vibration	90% RH 48h@60°C Frequency cycle range: 5~55~5Hz				Suitable for 2-wire or 3-wire 4~20mA sensor Power supply: 24V _{DC}	
			Drive amplitude (peak): 0.19 mm				Dimensions: 30×20×80mm	
1			Sweep frequency: ≤1Oct./min Duration of resonant: 20min				DT3814-8 Thermistor conditioner(optional)	
			Vibration direction: x. v. z				Number of channel: 1 input channel.	
							Meas. Range: -200°C ~ 850°C Accuracy: 0.5%±0.5°C	
							I _{out} : 1mA±2µA	
							Suitable for Pt10, Pt100, Pt1000 sensors Dimensions: 30×20×80mm(Single channel)	
I	l	I		I		I	Dimensional 30^20/00mm(Gingle Grannel)	

DE-864W-P External Li-battery module External lilinium battery pack. Support hot-swap. 97Wh Inout/Outout 18V 2A

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