



## DE-916 Isolated Dynamic Signal Test and Analysis System

DESCRIPTION	FEATURES		SPECIFICATIONS	SYSTEM CONFIGURATION	SOFTWARE	MODULES / ACCESSORIES	
DESCRIPTION  DE-916 Isolated Dynamic Signal Test and Analysis System is specially designed for accurate capture of transient signals in a strong interference environment.  By means of multi-layer shielding technique, DE-916 effectively eliminate electromagnetic radiation and conduction interference, and ensure the accurate measurement of force, pressure, stress, strain, displacement, velocity, acceleration and other physical quantities	Modular design, expandable to over 500 channels via Ethernet Individual 16-bit SAR AVD per channel, Multiple channel parallel operation, no interaction between channels Built-in bridge completion and Excitation Multi-layer shielding and advanced isolation technology, effectively eliminates electromagnetic noise and conducted interference Up to 20MHz per channel transient sampling rates and 1MHz per channel continuous sampling rates and CMRR of greater than 120 dB Built-in-24V/4mA biasing circuit, used to acquire the output signal of IEPE acceleration sensors and microphones Built-in Butterworth low-pass filter DMA real-time data transfer to ensure the high-speed and stable transmission of data without drop-out Suport EID and TEDS Input protection and signal state indication	Distortion Noise Zero Drift CMV CMR Input Strain Range Bridge Excitation Bridge Configuration Bridge Completion Resistors Bridge Voltage Current LPF Transfer Characteristic: Cut-off Frequency (-3dB±1dB Flatness: Stop-band Attenuation: Communication A/D Converter Freq. Response	1 channle/card, 8 card slots(19' 3U chassis)  GND, Dif-DC, Sin-DC, AC, IEPE  10MΩ/10pF ±0.01V, ±0.02V, ±0.05V, ±0.1V, ±0.2V, ±0.5V, ±1.0V, ±5.0V, ± 10.1V <0.1% of F.S. <0.05%/24h <0.01% of F.S. <0.5% <8μV <sub>RMS</sub> <3μV/8h ±500V(DC/AC peak value) =1200B ±1000με, ±10000με, ±100000με  Full, half, three-wire quarter bridge 1200/350Ω(Three-wire quarter bridge) 2V, SV, 10V, 24V DC Within 0.01% Max. 50mA  Butterworth low-pass filter 300Hz, 14Hz, 3kHz, 10kHz, 30kHz, 100kHz, 300kHz, PASS <0.1d8 Within 2/3 of cutoff frequency -18dBiOct. Gigabit Ethernet 16-bit SAR DC-1MHz (+0.5dB3dB)	SYSTEM CONFIGURATION    Configuration   Config	DE-BPS BasicPlatform Software Running on XP/Win7/Win8Win10 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.	DE-916 DAQ card  1 input channel/Card. Support DC, AC, GND 8 IEPE, 1/4 bridge, 1/2 bridge, and full bridge Input. Input voltage range from ±0.01V to ±10.0V. Input strain range from ±0.01V to ±10.0V. Input strain range from ±10.00µc to ±10.0000µc. Input voltage range from ±10.00µc to ±10.0000µc. Input strain range from ±10.00µc to ±10.0000µc. Input strain range from ±10.00µc to ±10.000µc. Input strain range from ±10.00µc to ±10.000µc. Input strain range from ±10.00µc. Input strain range from to ±10.000µc. Input strain range from ±10.000µc. Input channel. Suitable for ±10.000µc. Input channel. Suitable for ±10.000µc. Input channel. Suitable for ±10.000µc. P10.000 sensors. Measuring temperature range from ±200°Cto 850°C. Accuracy 0.5%±0.5°C.	© 1000 €
		LPF Transfer Characteristic: Cut-off Frequency (-3dB±1dB Flatness: Stop-band Attenuation: Communication A/D Converter Freq. Response Max. Continuous Sampling Rate Max. Transient Sampling Rate Power Supply Dimensions Environmental Conditions Operating Temperature Operating Humidity	Butterworth low-pass filter 300Hz, 1HHz, 3KHz, 10kHz, 30kHz, 100kHz, 300kHz, PASS <.0.1db Within 2/3 of cutoff frequency -18dB/Oct. Gigabit Ethernet 16-bit SAR DC-1MHz (+0.5dB3dB) 1MHz 20MHz 100 to 240V AC, 50-60Hz, 100W 482×133×338 mm -10 to 50°C 20-90%6RH@40°C	October Control		Max. bandwidth: 0.3Hz ~ 1MHz(+0.5dB ~ -3dB) Dietorition ~ 0.9% (Formisency ~ 3Hz) D1381+3 Current loop conditioner(optional) 1 input channel Suitable for 2-wire or 3-wire 4-20mA sensor 24V DC power supply D1381+3 Thermistor conditioner(optional) 1 input channel. Suitable for Pt10, Pt100, Pt1000 sensors. Measuring temperature range from -200°Cto 850°C. Accuracy: 0.5%±0.5°C	
		Storage Temperature Storage Humidity Vibration	- 40 to 60°C  90%RH24h@50°C  Frequency cycle range: 5–55–5Hz  Drive amplitude (peak): 0.19 mm  Sweep frequency: ≤ 1 Oct. / min  Duration of resonant: 10min  Vibration direction: v. v. v.			19" 1.5U chassis.  C-1 Cable 1 channel.  Default 5m bare cable or 1.5 m cable with bridge box.	