



DE-924D High Performance Dynamic Signal Test and Analysis System

| DESCRIPTION | FEATURES | | SPECIFICATIONS | SYSTEM CONFIGURATION | SOFTWARE | MODULES / ACCESSORIES | S |
|---|--|-----------------------------|--|---|---|--|---------------------------------------|
| DE-924D is a high performance dynamic | Supports intelligent wire identification and | Number of input channels | 2 channles/card, 8/16 card slots | | DE-BPS Basic Platform Software: | DE-924D DAQ Card | 6 |
| Mainly used for vibration (acceleration, | according to predefined templates; | Input Coupling | GND, Sin-DC, AC, Sin-IEPE | | Parameters setting, Function control, Real-time/post- | | |
| speed, displacement), impact, acoustics, | Support TEDS sensor access according to | Input Impedance | 10MΩ//100pF | | acquisition analysis, data browsing, cursor readouts, scaling | Input mode DC, AC, GND, IEPE(single end/differential | l) |
| test and analysis. | international standards, automatic sensor | Input Voltage Range | NA | | generation, long-term continuous data recording, etc | All channels are sampled synchronously in parallel, | (|
| High testing accuracy and strong anti- | parameters import; | Indication Error | ±0.5% of F.S. | | | and the maximum sampling rate of each channel is | Input 2 |
| interference ability to ensure accurate and | Gigabit Ethernet communication, real-time | Stability | <±0.05%/24h | | | | 6 |
| reliable test results. | communication with the computer can be a long | Nonlinearity | 0.05% of F.S. | | 0 | Double 24-bit A/D converters per channel | |
| Built-in 24V/4mA bias circuit | channel signals, all channels parallel synchronous | Noise | NA | Ethernet/ USB 3.0 | | Support smart wire and TEDS sensor identification | CH1-CH2 |
| The output signals of IEPE (ICP) | work, continuous sampling rate up to 128kHz/ channel; | Zero Drift | <3uV/b | - decenter | -495 742 -495 742 -495 742 -935846 | DE-92U Semi-19" Chassis | |
| piezoelectric acceleration sensor and | Fach channel contains on independent DCD real | Extended Mode | Ethernet extends to unlimited multichannel | | | 8 Card Slots. | • |
| | time signal processing system and A double 24-bit | Svnc Mode | Synchronous clock box | | | communication Interface. | |
| Vibration acceleration, vibration speed, vibration displacement (simulation guadration | A/D converter; | Strain Measurement | ., | | | DE-93U 19" chassis | |
| integral optional) testing and analysis; | Ramo connector: the input connector adopts high- | Input Strain Range | NA | | | 16 Card Slots. | |
| Optional charge adjuster, and piezoelectric sensor, accurate measurement of dynamic | the reliability of small signal input and is very | Indication Error | NA | Synchronous clock box | | communication Interface. | |
| pressure and acceleration; | convenient to operate; | Self-Balancing Range | NA | Synchronous clock cable Synchronous clock cable | | 220V _{AC} /12V _{DC} bower subbly. DT5857-8 Charge Conditioner(Optional) | |
| Voltage input, accurate measurement of | | Bridge Excitation | | Synchronous clock cable | | 1 input channel. | |
| various voltage signals. | | Bridge Configuration | Full, half, three-wire quarter bridge | | | Input Impedance: >10 ¹¹ Ω | |
| | | Bridge Completion Resistors | $120\Omega/350\Omega$ (Three-wire quarter bridge) | LEELEELEE LEELEELEE | | Amplifier output sensitivity: 0.1mV/pC and 10mV/pC | |
| | | Bridge Voltoge | $50\Omega \sim 10000\Omega$ (Half bridge/Full bridge) | Ethernet Ethernet | | Noise: <10×10 ⁻³ pC | |
| | | Bridge voltage | 2V, 5V, 10V, 24V DC Within 0.1% | | | Max. bandwidth: 0.3Hz ~ 300kHz(+0.5dB ~ -3dB) | |
| | | | Max. SomA | Switch | | Distortion: <0.5% (Frequency < 30kHz) DT5855-8 Charge Quadratic Integral Conditioner | |
| | | | NA | | | (Optional) | |
| | | Elethores | | Ethernet | | Max. input charge: 10 ⁵ pC | |
| | | Ston-band Attenuation: | | | | Input Impedance: >10 ¹¹ Ω | |
| | | | | | | Amplifier output sensitivity: 0.1mV/pC and 10mV/pC Accuracy: <1% | |
| | | | 14- | | | Noise: <10×10 ⁻³ pC | |
| | | SIN-DC | | Figure 2 Multi-system block diagram | | Distortion: <0.5% (within 30kHz) | · · · · · · · · · · · · · · · · · · · |
| | | | | | | Integral Type: No integral, Primary integral, Quadratic | |
| | | | Cigabit Ethorpot or LISB3.0 | | | Integral Frequency Range: | |
| | | A/D Converter | Double 24 bits | | | Primary integral: 10Hz~10kHz or 1Hz~1kHz Quadratic integral: 10Hz~1kHz or 1Hz~100Hz | |
| | | Freq Response | $DC_{-50kHz(+0.1dB_{}3dB)}$ | | | Integral Error: | |
| | | Sampling rate | un to 128kHz/channel | | | DT5856-8 IEPE Quadratic Integral Conditioner | |
| | | Anti-aliasing filter | | | | (Optional) Built-in 4m4/241/ biasing circuit | |
| | | Filtering Mode | Analog filter and real-time digital filter | | | Freq. Response: 0.3Hz~100kHz(+0.5dB~-3dB) | |
| | | Cut-off Frequency | 1/2.56 of sampling rate | | | Distortion: <0.5% (within 30kHz) Integral type: No integral, Primary integral, Quadratic | # mone-rank |
| | | Stop-band Attenuation: | -160dB | | | integral | |
| | | Flatness: | <0.1dB Within analysis frequency range | | | Primary integral: 10Hz~10kHz or 1Hz~1kHz | |
| | | Power Supply | 220V _{AC} ±10%/10~30V _{DC} , 160W(16 channles)/320W(32 channles) | | | Quadratic integral: 10Hz~1kHz or 1Hz~100Hz Integral Error: Primary integral: <3% | |
| | | Dimensione | 237×133×338mm (semi 19" chassis) | | | Quadratic integral: <5% Dimensions: 50mm(W)x35mm(H)x110mm(L) | |
| | | Dimensions | 482×133×338mm (19" chassis) | | | DT3911-8 Current Loop Conditionor(Ontional) | |
| | | Weight | Approx. okg (serill 19 chassis and 10 channels) | | | 1 input channel | |
| | | Environmental Conditions | | | | Suitable for 2-wire/3-wire 4~20mA sensor 24VDC power supply | 66666 |
| | | Operating Temperature | -10 to 50°C | | | Dimensions: 30mm(W)×20mm(H)×80mm(L) | |
| | | Operating Humidity | 20~90%RH@40°C | | | DT3814-8 Thermistor Conditioner(Optional) 1 input channel. | |
| | | Storage Temperature | - 40 to 60°C | | | Suitable for Pt10, Pt100, Pt1000 sensors. | |
| | | Storage Humidity | 90%RH24h@50°C | | | Measuring temperature range from -200°C to 850°C. | 44444 |
| | | Vibration Resistance | Frequency cycle range: 5~55~5Hz Drive amplitude (peak): 0.19 mm | | | Iout:1mA±2µA | |
| | | | Sweep frequency: ≤ 1 Oct. / min | | | TC-01 Tachometer/Counter Module(Optional) | |
| | | | Vibration direction: x, y, z | | | Rotation rate measurement: | D1594s Tacho/Gounter |
| | ' | 1 | | 1 | 1 | 1 | |

Range: 30~600000 rpm; e Input 1 Kange: 30~600000 rpm; Accuracy: < 0.05%±1r; Input signal pulse width: ≥10µs PPR: 1~4096 Axis ratio: 0.01~100 • Inps Counter measurement: Operating mode: support positive/reverse, pulse accumulative count, pulse count per unit time Reset mode: manual/atuomatic 0 Pulse count range: 0~100k/s Power supply: 5VDC/50mA DT5944 Signal Source Output Card (Optional) Number of Channel: 2 channels Voltage Range: ±10V_p Control Canadary Current: Max. 5mA Frequency: 0.1~20kHz D/A Resolution: 24 bits • Input 2 Accuracy: 1% within 2kHz Signal Type: constant frequency sine wave, sweep frequency sine wave, square wave, random, burst DT5945 CAN Bus Card (Optional) EutorSource • reput 1 © • reput 2 © Number of channel: 2 channels Protocol: CAN2.0B Baud rate: 4800bps~1Mbps Communication mode: duplex CAN bus for sending and receiving Support dbc file import. Support also mo import Supports standard and extended frame formats. Minimum sending interval: 1s 5 DT5946 RS485 Communication Card (Optional) Number of channel: 2 channels Baud rate: 1200bps~115200bps DT5947 Digital I/O Card (Optional) Number of channel: 8-Ch DI and 8-Ch DO Digital input: Support Dry/Wet Contact Digital output: Power Output (Ch1-Ch4) and TTL Output (Ch5-Ch8) Power Output: Max. 24V/1A

• Input 1