



SE-98H Dynamic Stress-strain Testing and Analysis System

DESCRIPTION	FEATURES	SF	PECIFICATIONS	SYSTEM CONFIGURATION	SOFTWARE	MODULES / ACCESSORIES	
The SE-98H Dynamic Stress-strain Test and	Modular design, flexible configuration of different	Number of Input Channel	8 channels per card, 8/16 card slots per chassis		DE-BSP Basic platform software	SE-98H DAQ Card 8 channels.	
Analysis System is specially designed for the strength and life evaluation test of large	DAQ cards, Ethernet communication to achieve unlimited channel expansion;	Full-scale Voltage Value	±0.05V, ±0.5V, ±5.0V, ±10.0V	Exam Cape	Running on XP/Win7/Win8/Win10 operating system.	8 channels, Simultaneous sampling of all channels,	
structures. It adopts the 19-inch standard		Strain Measurement		-e	Parameters setting, Function control, Real-	Maximum continuous sampling rate of 5kHz per channel,	
chassis structure and is extended by Ethernet switches.	Suitable for cabinet installation, to form a centralized test system;	Full-scale Strain Value	±50000με	Peccessite Australian Senar	time/post-acquisition analysis, data browsing, cursor readouts, scaling curve, data	Programmed to set the full bridge, half bridge, 1/4 bridge (three-wire system) bridge state,	
A standard and a second s		Min. Resolution	0.5με	Passander Pesser Senar	management and simple processing, report	Individual 24-bit A/D converter per channel,	
A single computer can realize the parallel and synchronous testing and analysis of quasi-	Support online synchronous loading with various loading testing machines to form a centralized test	Indication Error	<0.5%±3με	SE 98 (129 channels)	generation, long-term continuous data recording,	Support intelligent wire identification, Automatic wire resistance correction.	
dynamic and dynamic stress and strain signals in infinite channels.	system, which can be used for fatigue test of large structures;			Explanation of Demos	4 8 4 4 5 7 6 7 7 6 7 7 6 7 7 6 7 7 7 7 7 7 7 7	DE-92U Semi-19" 3U Chassis	
in infinite channels.	structures;	Nonlinearity	0.05% of F.S.	<u> </u>		8 Card Slots	and a second
Widely used in aerospace, automotive industry, mechanical engineering, rail transit and other	Support intelligent wire identification function, convenient for large system measurement point	Noise	≤1μεRMS	Load Beestr		Including control card, 100 Megabit Network communication Interface	
industries of various structure performance	information editing and setting;	Zero Drift	<3µɛ/2h			100 ~ 240VAC / 12VDC bower subbly DE-93U 19" 3U Chassis	
testing and analysis.	Ethernet communication, real-time communication	Self-Balancing Range	±20000με (±2% of strain gauge resistance)	Figure 1 Single System Block Diagram		16 card slots	1.
Support synchronous loading with MOOG's loading testing machine online.	with the computer, can record multi-channel signals for a long time in real time and without interruption, all channels work in parallel, SE-98H maximum	Strain Gauge Sensitivity Coefficie	n 1.0 ~ 3.0 (Auto. calibrating)	Court Grant		Including control card, 100 Megabit Network communication Interface	1. Summing the
		Bridge Excitation		SK-44 (128 of worket)		100 ~ 240VAC / 12VDC power supply	and the state of t
	sampling rate of 5kHz/ channel, the maximum	Bridge Configuration	Full, half, three-wire quarter bridge			DT5611A Synchronization Box (Optional) 8 inputs	
	sampling rate of different boards and cards mixed combination of 1kHz/ channel;	Bridge Completion Resistors	120Ω, 350Ω (Three-wire quarter bridge) 600~200000 (Half bridge / Full bridge)	Parameter Bener 00.04 (13 d'annel)		Built-in synchronization clock distributor	
		Bridge Voltage	2V, 5V, 10V DC			Support multiple clock box cascade connection 19" 1.5U chassis.	
	If the sampling rate is less than 500Hz, the network Time Protocol (NTP) synchronization mode is used	Accuracy	<0.1%	Department Reser		DT5857-9 Differential Charge Conditioning Unit (Optional) 1 differential input channel	
	to enable simultaneous communication and	Stability	<0.05/h	Last Sensor		Full-scale charge Value: 103pC, 105pC	
	synchronization between the chassis and the switch through one network cable.	Max. Output current	20mA/CH			Frequency response: 0.3Hz ~ 300kHz	
	Sampling rate above 500Hz, using synchronous	LPF				DT5855-8 Charge Conditioner (Optional) 1 differential input channel	#
	clock line serial synchronization;	Transfer Characteristic	6th order Butterworth and Chebyshev filter	Figure 2 Multiple System Block Diagram		Full-scale charge value: 103pC, 105pC	
	Strong anti-interference ability, good stability;	Cut-off Frequency	10Hz, 30Hz, 100Hz, 300Hz, PASS			Frequency response: 0.3Hz ~ 300kHz Quadratic integral	
		Anti-aliasing Filter				DT5856-8 IEPE Conditioner (Optional)	
	Built-in standard resistance, software programmed to set the bridge state of full bridge, half bridge,	Cut-off Frequency	1/2.56 of sampling rate			Built-in 24V/4mA biasing circuit Frequecy response: DC ~ 300kHz	
	three-wire system 1/4 bridge;	Stop-band Attenuation	>-100dB			Quadratic integral	
	All channels automatic measurement wire	Flatness	<0.1dB (Within analysis frequency range)			DT5857-8 Charge Conditioner (Optional)	
	resistance and correction function;	A/D Converter	24 bits			1 input channel Full-scale charge Value: 103pC, 105pC	
	With strain bridge self-test function, can quickly	Freq. Response	DC ~ 1kHz			Frequency response: 0.3Hz ~ 300kHz/1MHz	
	know the current status of the channel;		Single Chassis:1Hz, 2Hz, 5Hz, 10Hz, 20Hz, 50Hz. 100Hz. 200Hz. 500Hz. 1kHz. 2kHz. 5kHz				
			Multiple-Chassis(with NTP): 1Hz, 2Hz, 5Hz,			DT3811-8 Current Loop Conditioner (Optional)	
		Sampling Rate	10Hz, 20Hz, 50Hz, 100Hz, 200Hz, 500Hz per channel			1 input channel Suitable for 2-wire / 3-wire 4 ~ 20mA sensor	
			Multiple-Chassis(with NTP): 1Hz, 2Hz, 5Hz, 10Hz, 20Hz, 50Hz, 100Hz, 200Hz, 500Hz,			24V DC power supply	
			1kHz. 2kHz. 5kHz per channel				
		Communication	Ethemet			DT3814-8 Thermistor Conditioner (Optional) 1 input channel	
		Synchronization				Suitable for Pt10, Pt100, Pt1000 sensors	Baran Done serves \$25
			Synchronous Clock Cable (sampling rate below			Measuring temperature range from -200°C to 850°C Accuracy: 0.5%±0.5°C	66666
		Power Supply	220VAC/10 ~ 30VDC, 160W (64 channels) / 200W (128 channels)			lout:1mA±2µA	
		Dimensions				DT5942 Tachometer Card (Optional)	
		Semi-19" Chassis	236×133×338mm			Number of channel: 2 input channels Range: 30 ~ 300000 rpm / 5 ~ 20000 rpm	
		19" Chassis	482×133×338mm			PPR: 1 ~ 512	
		Weight				DT5943 Counter Card (Optional)	
1		Semi 19" Chassis (64 channels)	Approx. 8kg			Number of channel: 2 input channels Access to various pulse output counter, used for measuring	
		19" Chassis (128 channels)	Approx. 12kg			revolving speed, pulse or frequency	
		Environmental Conditions				DT5944 Signal Source Output Card (Optional)	
		Operating Temperature	0°C to 40°C			Number of Channel: 2 channels Voltage Range: ±10VP	
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	Storage Temperature - Storage Humidity 90 Vibration Fr S S D D	to - 90%RH@40°C - 40°C to 60°C 10%RH24h@50°C Trequency cycle range: 5Hz - 55Hz - 5Hz Trive amplitude (peak): 0.19mm Sweep frequency: ≤10ct/min Juration of resonant: 10min /ibration direction: x. v. z			Current: Max. 5mA Frequency: 0.1 - 20kHz D/A Resolution: 24 bits Accuracy: 15 within 2kHz Signal type: constant frequency sine wave, sweep frequency sine wave, square wave, random, burst random DT5945 CAN Bus Card (Optional) Number of channel: 2 channels Protocol: CAN2.0B Baud rate: 4800bps - 1Mbps Communication mode: duplex CAN bus for sending and receiving Minimum sending interval: 1s Support do: file import Support do: file import DT5947 Digital VO Card (Optional) Number of channel: 8-Ch DI or 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 C-4 Cable 4-core cable Default 5m bare cable or 1.5 m cable with bridge box	
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