

Safety Standards Measuring Instruments



Automatic insulation testing and AC/DC voltage endurance testing

Multi-point Automatic Testing for High Voltages

Max. 32 ch

2 modes

CE

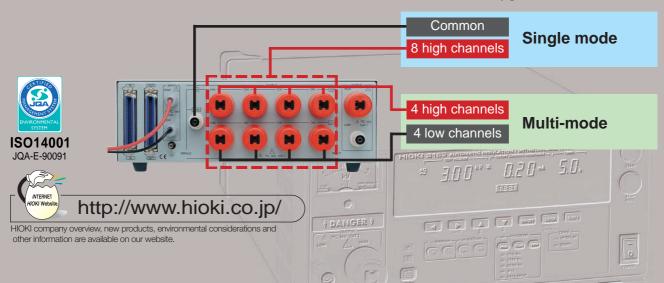
The 3930 is a high voltage scanner that allows high voltage inputs to be output from any channel. A single unit is equipped with 8 channels (using single mode), and up to four units can be connected to give a total of 32 channels. In addition, the 3930 can be used in combination with the 3153 AUTOMATIC

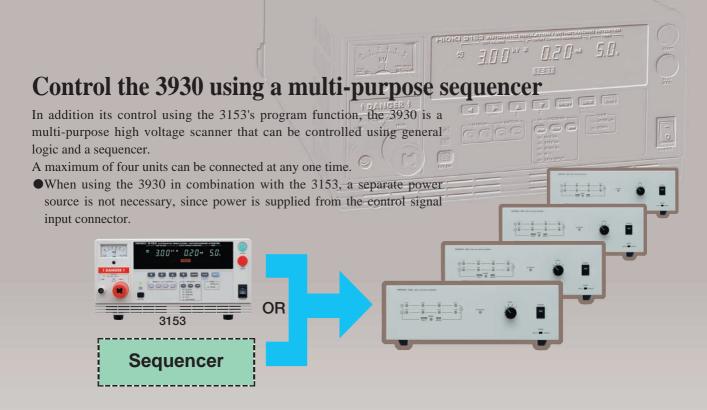
INSULATION/WITHSTANDING HITESTER, displaying its capabilities as an unattended automatic testing device for multiple point insulation and AC/DC voltage endurance testing.



The 3930 features isolated high voltage input and output, as well as insulated control signal lines and an insulated power cord. Further, when multiple units are connected, the 3930 can detect wrongly set (duplicated) IDs and stop all output.

The 3930 has two operation modes, single mode and multimode. The single mode has a common channel with eight high channels, while the multi-mode has four high and four low channels, and the 3930 can scan any point on these channels.





Functions

Operation modes	:	Multi- and single modes
Mode setting method	:	External switch
Number of channels	:	Multi-mode; 4 high channels and 4 low channels
		Single mode; 8 high channels and a common channel
Rated voltage used	:	AC 5 kV/DC 5 kV
Operation display	:	The lamp lights when power is supplied to the unit
		The lamp lights when the specified channels are used
Control method	:	General-purpose control

Relay area

Maximum open and closed voltage	:	5000 V DC, 5000 V AC
Maximum open and closed current	:	1.0 A (open and closed capacity: 50 W)
Contact point indirect contact resistance	:	$500~\text{m}\Omega$ or less, with 1 mA AC
Contact point maximum capacity	:	50 W
Operation time	:	6 ms or less
Recovery time	:	6 ms or less

Control signal

ID authentication signal	:	ID_XE_OUT: ID exists (X; 0 to 3)
		ID_XE_OUT: ID overlapping (X; 0 to 3)
Signal level	:	The signal level voltage (VISO_v) is input externally, and
		the voltage (VISO_V) must be within the range 5 to 24 V $$
Input signal level	:	Hi; VISO_V + 1.0 V max., VISO_V - 1.5 V min.
		Lo; VISo_v - 4.0 V max., VISo_com - 0.5 V min.
Output signal level	:	Open collector output
(with no load)		Hi; VISO_V max, VISO_V - 0.5 V min.
		Lo: VISO COM + 0.5 V max., VISO COM- 0.5 V min.

General specifications

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	Sincations	
Degree of Accuracy	: Standards for current leakage when applying voltage	ge
	Single mode, no output cable, and all output relays	
	turned on for both AC and DC.	
	When applying DC (1000 V); 0.1 μ A or less/unit	
	When applying AC (5 kV, 50/60 Hz only); 0.4 mA	
	or less/unit	
	(Differs depending on the status of the connection cable)	
Operation temperature range	: 0°C to 40°C, 80% rh or less (no condensation)	
Storage temperature range	: -10°C to 50°C, 90% rh or less (no condensation)	
Operation environment	: Indoors, altitude of 2000 m or less	
Withstand voltage	: High voltage terminal - between the chassis:	
	AC 10 kV, 10 mA, 1 min	
Power	: VSCV 24 V DC, ±10%	
	(applied using the control signal input connector)	
Maximum rated power	: 12 VA	
Measurements	: Approx. 316 (W) × 100 (H) × 350 (D) mm	
Mass	: Approx. 4.2 kg	
Standard accessories	: Connection cables	
	9615-01 H.V. TEST LEAD (red: high voltage side) × 8	
	9615-02 H.V. TEST LEAD (black: return side) × 1	
Conformance tandards	: EMC; EN61326-1:1997+A1:1998 CLASS A	
	Safety; EN61010-1:1993+A2:1995	
	Power supply unit	
	Degree of pollution: 2, overvoltage category I	
	(anticipated overvoltage category: 330 V)	
Other	: Output prevention protection circuit using the ID	
	authentication signal	
	Output prevention protection circuit using the mode	е
	authentication signal	
	LED display of the terminal being output	
	1	
9	615-01 H.V. TEST LEAD (red: high voltage side)	

9615-02 H.V. TEST LEAD (black: return side)



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All information correct as of Oct. 31, 2001. All specifications are subject to change without notice.