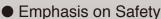
# ΗΙΟΚΙ

## Automatic insulation testing and AC/DC voltage endurance testing **Multi-point Automatic Testing for High Voltages**

## **Max. 32 ch**

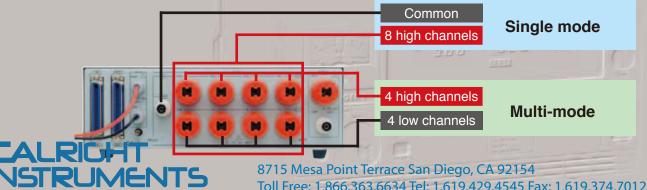
The 3930 is a high voltage scanner that allows high voltage inputs to be output from any channel. A single unit is equipped with 8 channels (using single mode), and up to four units can be connected to give a total of 32 channels. In addition, the 3930 can be used in combination with the 3153 AUTOMATIC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

2 modes

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.



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## Control the 3930 using a multi-purpose sequencer

In addition its control using the 3153's program function, the 3930 is a multipurpose high voltage scanner that can be controlled using general logic and a sequencer.

A maximum of four units can be connected at any one time.

•When using the 3930 in combination with the 3153, a separate power source is not necessary, since power is supplied from the control signal input connector.



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

### Control signal

Model No. (Order Code) (Note)

3930

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.

Model : HIGH VOLTAGE SCANNER 3930

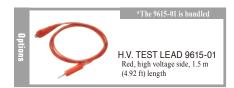
Accessories: Control input connector connection cable ×1, H.V. Test lead 9615-01 (red) ×8,

(For the 3153 or other)

H.V. Test lead (black)  $\times 1$ , Grounding cable  $\times 1$ , Instruction manual  $\times 1$ 

## General specifications

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



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