

SG3001

Digital Measuring Instrument



The Digital Measuring Instrument SG3001 is a microprocessor controlled device for accuracy measuring AC, DC and also can be used for testing voltage waveform distortion and ripple factor.

The SG3001 has implemented a flash detector which stores and shows the last voltage measurement and its polarity before a breakdown or flashover occurs.

The instrument is specially designed for use in high voltage laboratories where a high degree of accuracy is necessary.

The SG3001 used switching power supply with the function of overvoltage protection and FFT technology. So the SG3001 can be used in strong magnetic field.

As a measuring device the SG3001 is in accordance to the international standard IEC 60060-2.

Features

- AC voltage measurement by capturing rms, peak and peak/:2 values.
- DC voltage measurement and evaluation of mean value and ripple factor.
- Flash detection of AC and DC flashovers. The generator can automatically be stopped from recharging.

- Plotter output for recording of AC and DC voltages on an external X-Y graph recorder.
- BNC, R16 and LEMO signal interface can be accepted.
- K1.K2 (Voltage divider ratio) can be set easily.

Technical Specifications

AC Measurement

Measurement modes peak, peak/2, rms

Input Voltage range: 0 ... 700 V rms

Frequency Range: 16 ... 400 Hz

Accuracy: $\pm 0.2\%$ rdg, ± 3 counts

DC Measurement

Measurement modes mean value, ripple

Input Voltage range: 0 ... 1000 V

Accuracy: $\pm 0.2\%$ rdg, ± 3 counts

Power Supply

Line Voltage: 220 V $\pm 15\%$ AC

Line Frequency: 50 Hz

Power Consumption: 20 W

Environmental Conditions

Operating temperature: 10 ... 40° C

Humidity Range: 35 ... 80 % r.h., n.c.

Weight and Dimension

Weight: 6.6 kg

Dimension: (W x H x D) 450 x 135 x 300 mm

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