



HIGH VOLTAGE UNIT

U8974

1000V High-voltage Direct Input Module for
Memory Recorders



Basic specifications (Accuracy guaranteed for 1 year, Post-adjustment accuracy guaranteed for 1 year)

Measurement functions	Number of channels: 2, for voltage measurement, DC/RMS selectable Maximum rated voltage to ground: 1000 V AC or DC (CAT III), 600 V AC or DC (CAT IV)
Input terminals	Banana input terminal (Input impedance: 4 M Ω , Input capacitance: 5 pF)
Measurement range	200 mV/div to 50 V/div (DC mode), 8 ranges 500 mV/div to 50 V/div (RMS mode), 7 ranges
Measurement resolution	1/1600 of measurement range (using 16-bit A/D conversion)
Maximum sampling rate	1MS/s
Measurement accuracy	$\pm 0.25\%$ f.s. (with filter 5 Hz, zero position accuracy included)
RMS measurement	RMS accuracy: $\pm 1.5\%$ f.s. (DC, 30 Hz to 1 kHz), $\pm 3\%$ f.s. (1 kHz to 100 kHz) Response time: High speed 150 ms, Medium speed 500 ms, Low speed 2.5 s
Frequency characteristics	DC to 100 kHz (-3dB)
Input coupling	DC/GND
Maximum input voltage	1000 V DC, 700 V AC
Dimensions and mass	106 mm (4.17 in) W \times 19.8 mm (0.78 in) H \times 196.5 mm (7.74 in) D, 230 g (8.1 oz)
Accessories	None