



Measuring Amplifier (High Sensitivity)

Model: YE5810

FEATURES

YE5810 measuring amplifier is a precise instrument as high-gain and ultra-low noise amplifier and high-sensitivity AC millivoltmeter for the test of acoustics and vibrating measurement. This instrument utilizes the high-quality integrated circuit, simple in calibrating and operating; good long-term stability, wide test range, low noise, and high accuracy. Connect with adjustable filter for frequency analysis. Matched with capacitance microphone system, could be composed of the precise sound level meter in accordance with the standard of IEC, ANSI and DIN. Suitable for precise measurements with the accelerometer and other vibrating transducer.



Measure Range	10uV to 30V Full deflection		
Frequency Range	2Hz to 200kHz(± 1 dB) ; 10Hz to 50kHz(± 0.2 dB) (Reference Point:1000Hz)		
Phase Deviation	$\leq \pm 5^\circ$ (20 Hz to 20kHz) Between Difference Instruments		
Gain	1V Output:-30dB to 100dB, 10 dB ± 0.5 dB per step adjustable Additional fine adjustment:0 to 10dB		
Input Impedance	1M Ω /70pF		
Filter	Built-in filter	22.4HzHPF,18dB/OCT , “A”Weight,IEC651 (0 level)	
	External filter	Input: 1VRMS; Max.Output:10VP; Max. Load 5k//200PF; Output:1VRMS; Max.Output:10VP Max. Load: 1M//50PF	
Meter Indication	Meter	Moving-coil meter	
	Indication Range	Logarithm:0 . 3 to 10V; 1 to 30V; Linear:0 to 30dB	
Overload Indication	Overload Amplitude	Equivalent full rang 5 times or 10 times	
	Overload duration	>200us	
	Alarm duration	>0.5S	
Reference Voltage	Signal: 50mVRMS, 1kHz, Sine wave amplitude stability :+10°C to +30°C, <2%		
AC Output	1V Full deflection	Input Voltage	10VP (Load 10K//200Pf max)
		Output Impedance	$\sim 100\Omega$
	Record amplifier output (1.6VRMS Full deflection)	Input Voltage	10VP (Load 10K//200Pf max)
		Output Impedance	$\sim 50\Omega$
DC Output	Output Voltage	100mV/dB,5VDC(10mA) Full deflection	
	Output Impedance	50 Ω	
	Dynamic Range	RMS : +20 to -50dB Full deflection	



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Distortion	Input Part	1kHz: < 0.01%; 50 kHz: < 0.1%; Max. Load:5kΩ//200PF
	Output Part	1kHz:≤0.1%; 50 kHz:≤0.3%; Max. Load:10kΩ//200PF
Noise(RTI)	Input Part	< 5uVRMS(Linearity 2Hz to 200kHz)
		< 1.5uVRMS(A Weighting)
	Output Part	≤31.6uV(2Hz to 200kHz)
Operating Condition	Power Supply	220V±10% 50Hz
	Operating environment	GB6587.1—86I
Dimensions	440mm(W)×122mm(H)×200mm(D)	
Weight	About 6Kg	
Accessories	Input Cable	3
	Output Cable	3
	Power Cable	1

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