



Ultra-low Frequency Charge Amplifier

Model YE5850

FEATURES

- Ultra-low frequency measurement (down to 2 μ Hz)
- High current output (up to 100mA)
- Wide frequency bandwidth and high input impedance
- Three digit dial-in transducer sensitivity
- Multiple Integrated low pass and high pass filters
- Both charge and voltage inputs
- Internal polarisation switch
- Overload indicator



SUPPLIED WITH

Input cable	2 meter STYV-1 low noise cable fitted with L5 connectors, 2 meter STEF0.9 low noise cable
Output cable	2 meter BNC cable
Power supply cable	both AC and DC cables

PERFORMANCE

Input voltage range	-10V to +10V peak
Input charge range	10 ⁶ pC
Equivalent DC resistance	10 ¹⁴ Ω
Output voltage	\pm 10V peak
Output current	\pm 100mA
DC offset	\pm 10mV
Loading impedance	\geq 100 Ω
Noise	\leq 30 μ V referred to input at maximum sensitivity
Gain settings	0.01; 0.1; 1; 10; 100; 1000mV/pC with transducer capacitance 1nF
Accuracy	\leq \pm 1% at 20°C \pm 2°, 45-75% RH, >10k Ω loading, AC 220V \pm 2%, DC \pm 18-21V \leq \pm 2% at 0°C-40°, 20-90% RH, >100 Ω loading, AC 220V \pm 10%, DC \pm 18-27V
Low-pass filters	0.3kHz, 1kHz, 3kHz, 10kHz, 30kHz, 100kHz with cutoff frequency of -3db \pm 1db and attenuation -12dB/oct
High-pass filters	3Hz, 0.3Hz, 0.03Hz, and 0.003Hz. (M, L options referring to user manual)

PHYSICAL CHARACTERISTICS

Dimensions	80mm(W) \times 122mm(H) \times 200mm(D)
Weight	1.5kg
Electrical connection	L5 socket for input, BNC jack for output

ENVIRONMENT CHARACTERISTICS

Operating temperature	0°C to 40°C
Storage temperature	-55°C to 85°C
Maximum humidity	95% RH