



SINOCERA



Global Sensor
Technology

Charge Amplifier (Double Integral)

Model: YE5858

FEATURES

- Acceleration, Velocity, Displacement could be tested.
- Small size and high integration.
- Three decimal system uniformization output (1-109.9 pC/m/s²).
- Switchable for Gain, HPF, LPF.
- Low noise, high accuracy.
- Charge or Voltage input.
- Overload indication ($\pm 5VP$).



Technical Specifications:

Input Range	Voltage: $\pm 5VP$ (Max); Charge: $\pm 0.5 \times 10^5 PC$ (Max)
Output Range	$\pm 5VP/5mA$ (Max)
Noise	$\leq 5\mu V$ (The max gain is converted into the input end)
Distortion	$< 1\%$ (output when the frequency is 10kHz, capacitance load is 10nF full-amplitude)
Overload Indication	Output exceeds $\pm 5VP$, illuminant diode turns bright
Gain	1; 10; 100; 1000mV/pC (power capacitance: 1nF)
Accuracy	Acceleration : $\leq \pm 1\%$ (inherent tolerance), $\leq \pm 2\%$ (operating tolerance) Velocity : $\leq \pm 3\%$ (inherent tolerance), $\leq \pm 5\%$ (operating tolerance), Displacement : $\leq \pm 5\%$ (inherent tolerance), $\leq \pm 5\%$ (operating tolerance),
Low Pass Filter	0.3k, 1k, 3k, 10k, 30k, 100kHz (-3dB $\pm 1db$, -12dB/Oct)
High Pass Filter	A: 0.3, 1, 10; V: 1, 10; D: 1, 10 (-3dB $\pm 1db$, -6dB/Oct)
Temperature	Operating: 0°C to +40°C; Storage: -55°C to +85°C
Humidity	95% R.H. (Max)
Power supply	Internal: 6x1.2V ($> 1300mA$); External: +5V to +28VDC ($< 300mA$)
Dimensions	70mm(W) x 132.5mm(H) x 200mm(D)
Weight	About 1.5Kg
Connections	Input: L5; Output: BNC
Input Cable	One 2m double-ended L5 STYV-1 low noise cable
Output Cable	One 2m double-ended BNC 50Ω output cable
Power Source Cable	One DC power source cable
Charger	Specific charger (operating voltage: AC90 to 240V)
Battery	1.2V rechargeable battery (inside the instrument)