

Supports
IEPE
Direct
Access

Low-pass
Anti-aliasing
Filter

Meets
Low-Pass
High-Pass
Band-Pass
Needs



- Built for high-performance measurement of acceleration intervals and performance.
- Complete isolation on each channels provide enhanced measurement of various signals through multiple-channel (4ch) measurement.

Measurements Available for:

Charge-Type	Accelerometer	pC/(m/s ²), pC/(9.8m/s ²), pC/g, pC/G
	Pressure Sensor	pC/bar, pC/N, pC/Pa
	Weight/Force	pC/lb, pC/kN
Embedded Amp-Type	Accelerometer	mV/(m/s ²), mV/(9.8m/s ²), mV/g, mV/G
	Pressure Sensor	mV/psi, mV/kPa, mV/Pa, mV/bar
	Weight/Force	mV/lb, mV/lbf, mV/N, mV/kN



GL7000

GL7-CHA (Acceleration Module) specifications

Item	Contents	
Input ch number	4 ch/1 module	
Input terminal shape	BNC terminal Miniature connector (#10-32UNF) *Only one terminal is available for each channel.	
Input System	Insulation, simultaneous sampling, unbalanced input	
Sampling interval	10µs to 1 hour	
Built-in RAM	2,000,000 data	
Input coupling	Off, Charge, IEPE, DC, AC, Charge-RMS, IEPE-RMS, DC -RMS, AC-RMS	
Measurement range	Acceleration sensor input	1, 2, 5, 10, 20, 50, 100, 200, 500 m/s ² 1000, 2000, 5000, 10000, 20000, 50000 m/s ²
	Voltage input	AC, DC : 50, 100, 200, 500 mV, 1, 2, 5, 10 V RMS : 20, 50, 100, 200, 500 mVrms, 1, 2, 5 Vrms Crest Factor : (2 Vrms range or less) 4 or less, (5 Vrms range) 2 or less
Sensor sensitivity	Charge input	0.01 pC/(m/s ²)~999.9 pC/(m/s ²)
	IEPE input	0.01 mV/(m/s ²)~999.9 mV/(m/s ²)
Measurement accuracy *1 (23?±5?)	Charge input	±0.9% of F.S. [Sensor sensitivity] x [Setting range] ≥ 20 pC
	IEPE input	±0.25% of F.S. [Sensor sensitivity] x [Setting range] ≥ 200 mV
*1 After power-on, more than 30 minutes, sampling 1 sec., filter line, GND		
A/D converter	System: sequential comparison system Resolution: 16-bit (Effective Resolution : Approx. ±Range 1/40,000)	
Temperature coefficient	Gain: ±0.01% of F.S./°C Zero: ±0.02% of F.S./°C	
Input resistance	100 kΩ±5%	
Power supply	22 V ±10%, 4 mA, 8 mA±20%	
Max. input charge	50,000 pC	
Maximum input voltage	Input terminal(+)/ Input terminal (-) interval : 25 Vp-p Input terminal (-)/ Input terminal (-) interval : 25 Vp-p Input terminal (-)/GND terminal interval : 25 Vp-p	
Withstand voltage	Input terminal(+)/Input terminal (-) interval : 300Vp-p 1 minute Input terminal (-)/GND terminal interval: 300Vp-p 1 minute	
Insulation resistance	Input terminal (-)/GND terminal interval: 50 MΩ or more (at DC500 V)	
Common mode rejection ratio	80 dB or more (50/60 Hz signal source 300Ω or less)	
S/N (Noise)	48 dB or more (+/- at short)	
Frequency response	Charge-type: 1.5 Hz to 45 kHz IEPE: 1 Hz to 45 kHz	
Filter	H.P.F.	OFF, 0.15, 1, 10 Hz
	L.P.F.	OFF, Line (1.5 Hz) 3, 6, 10, 30, 50, 60 Hz, 100, 300, 500 Hz, 1, 3, 5, 10 kHz at -30 dB/oct
	A.A.F.	OFF, ON (Anti-aliasing filter)
TEDS	Standards: Conforms to IEEE1451.4 Class1 (Template No. 25) Information: Readout and auto-set for sensor data	
External dimensions [WxDxH] (approximate)	49.2 x 136 x 160 mm (not including protruding parts)	
Weight (approximate)	850g	

Accelerometer

Accelerometer

Accelerometer



Product Drop Testing



Motor/Pump Vibration Testing



Process Control Load Testing