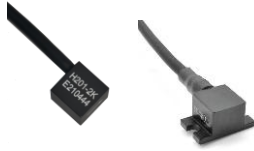


Full bridge piezo-resistive accelerometer



Description

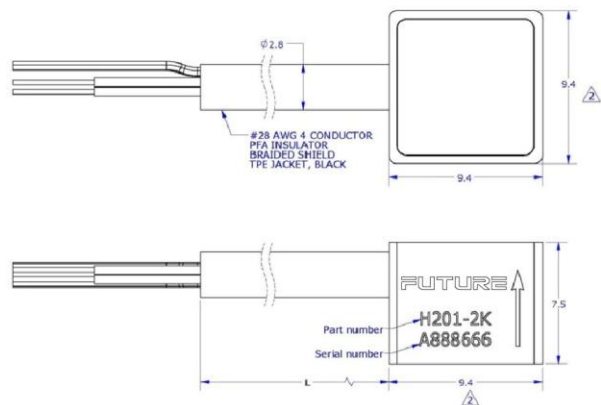
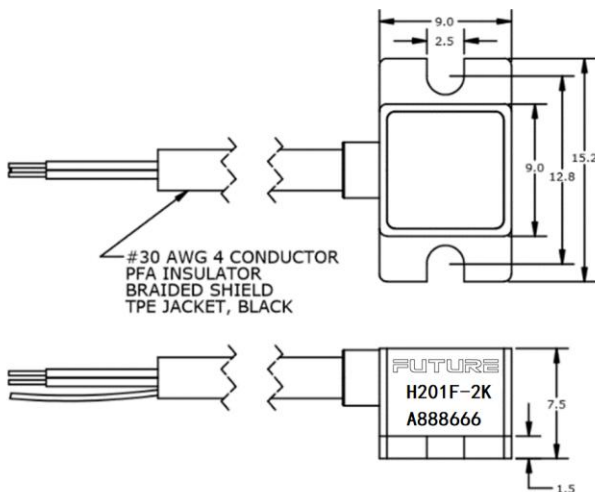
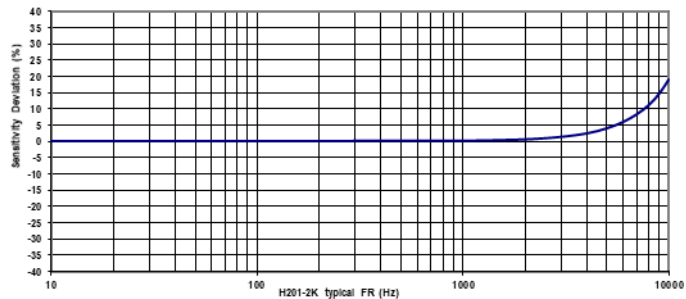
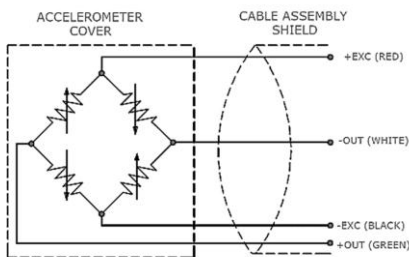
Model **H201/H201F** accelerometer is based on a latest piezo-resistive MEMS sensing element which offers exceptional dynamic range and stability. This unit features a full bridge output configuration with a compensated temperature range from 0 to +50° C. Model **H201/H201F** accelerometer has a standard crosstalk accuracy of $\pm 3\%$. Epoxy potting design support the feature of waterproof (IP67) protection. Advance MEMS structure provides outstanding shock survivability, a flat amplitude and phase response up to 5kHz. Model **H201/H201F** can be mounted on tested object by different surface for the best testing orientation.

Features

- Water proof housing
- DC response
- 2000 g full scale
- Shock, low & high frequency
- 6K g shock survivability
- 2-10Vdc Excitation
- Light weight

Application

- Auto crash test
- On vehicle shock test
- Crash sled simulation test



Specification

All values are typical at +24°C (+75°F), 100Hz, and 10Vdc excitation unless otherwise stated.

DASH No.	-01K	-05K	-1K	-2K	Units
Dynamic Range	±100	±500	±1000	±2000	g
Sensitivity	0.9	0.4	0.15	0.15	mV/g
Frequency Response ±2%	0-500	0-1000	0-1500	0-1500	Hz
Frequency Response ±5%	0-1200	0-2000	0-3000	0-3000	Hz
Frequency Response ±1dB	0-1500	0-4000	0-5000	0-5000	Hz
Phase Response ±5°	0-400	0-1000	0-2000	0-2000	Hz
Resonant Frequency	6000	15000	26000	26000	Hz
Damping Ratio	0.5	0.3	0.05	0.05	
Shock Limit	6000	6000	6000	6000	g

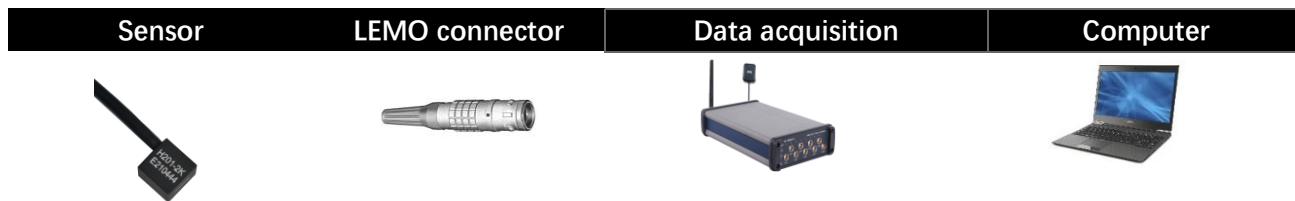
PARAMETERS	VALUE	UNITS
Zero Acceleration Output	<±40	mV
Transverse Sensitivity (<1% by option)	<3	%
Non-Linearity	±1	%Reading
Thermal Zero Shift, 0-50°C (32-122°F)	±0.04 (±0.02)	%FSO/°C (%FSO/°F)
Thermal Sensitivity Shift, 0-50°C (32-122°F)	±0.1 (±0.06)	%/°C (%/°F)
Excitation Voltage	2 to 10	Vdc
Insulation Resistance (@100Vdc)	>100	MΩ
Input Impedance	3000 to 5000	Ω
Output Impedance	2500 to 5000	Ω
Operating Temperature	-40 to +121 (-40 to +250)	°C (°F)
Humidity	Epoxy sealed	
Weight (Cable Not Included)	1(H201) / 2(H201F)	Grams
Mounting Torque	3 (0.3)	lb-in (Nm)

Accessories

Calibration certificate included.

Part Number	Description	Availability
PJ0048	LEMO FGG-1B-307 connector	Optional
PF0095	Quick dry adhesive epoxy-Loctite® #401	Optional
IN-01	Bridge piezo-resistive signal amplifier	Optional
IN-3062	8 channels data acquisition system	Optional

Measurement configuration



Ordering information

H201	-	2K	-	8	C1	-	B
Model	-	Range	-	Cable length	Connector	-	Mounting screw
H201	-	01K=100g	-	6=6 meters	C*=Connector options	-	A=2-56x1/4screw 2pcs
H201F	-	05K=500g	-	8=8 meters	Blank=No Connector	-	B=M2.5x5 screw 2pcs
		1K=1000g		9=9 meters			
		2K=2000g					

Connector options

C1	C2	C3	C4	
LEMO FGG-1B-307	LEMO FGG-1B-307	LEMO FGG-1B-307	LEMO FGG-1B-307	Blank
Dallas Chip: DS2401		Dallas Chip: DS2401		
Pin1=N/C	Pin1=N/C	Pin1=N/C	Pin1=- OUT (White)	No connector
Pin2=Dallas pin2	Pin2=N/C	Pin2=Dallas pin2	Pin2=- EXC (Black)	
Pin3=+OUT (Green)	Pin3=+OUT (Green)	Pin3=+OUT (Green)	Pin3=+EXC (Red)	
Pin4=+EXC (Red)	Pin4=+EXC (Red)	Pin4=+EXC (Red)	Pin4=+OUT (Green)	
Pin5=- EXC (Black)	Pin5=- EXC (Black)	Pin5=- EXC (Black)	Pin5= N/C	
Pin6=- OUT (White)	Pin6=- OUT (White)	Pin6=- OUT (White)	Pin6=N/C	
Pin7=N/C	Pin7=N/C	Pin7=Housing=Dallas	Pin7= N/C	
Housing=Dallas	Housing=Shield	pin1=Shield	Housing=Shield	
pin1=Shield				



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