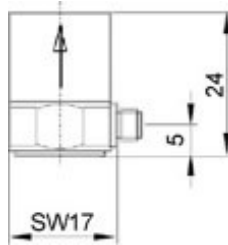


Standard Accelerometer

KD37

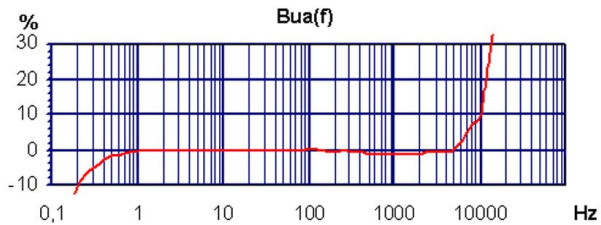
Properties

- Low-cost precision accelerometer with compression ceramics
- Charge output, no external power required
- Wide dynamic range
- Rugged stainless steel housing



Piezo design	Compression design	
Output	Charge	
Charge sensitivity	60	pC/g
Sensitivity tolerance	20	%
Measurement range, pos./neg.	5000 / 1000	g
Destruction limit	5000	g
Capacitance without cable	800	pF
Transverse sensitivity	<10	%
Upper frequency limit (3 dB)	15000	Hz
Upper frequency limit (10 %)	10000	Hz
Upper frequency limit (5 %)	7000	Hz
Resonant frequency	>25	kHz
Resonance amplitude	30	dB
Operating temperature range	-35 - 150	°C
Temperature coefficient of voltage sensitivity	0,07	%/K
Temperature transient sensitivity	30	m/s ² /K
Acoustic noise sensitivity	0,1	m/s ² /Pa
Magnetic field sensitivity	10	m/s ² /T
Base strain sensitivity	0,2	m/s ² /μD
Weight without cable	45	g
Case material	Stainless steel	
Connector direction	radial	
Connector	UNF10-32	
Mounting	M5	

Typical Frequency Response



Connection Accessories

- 009-UNF-UNF-1,5: Low-noise cable; 1,5 m; UNF 10-32 to UNF 10-32; 120 °C; Ø2,1
- 009/T-UNF-UNF-1,5: Low-noise cable; 1,5 m; UNF 10-32 to UNF 10-32; 200 °C; Ø2,1
- 009-UNF-BNC-1,5: Low-noise cable; 1,5 m; UNF 10-32 to BNC; 120 °C; Ø2,1
- 010-UNF-BNC-5: Low-noise cable; 5 m; UNF 10-32 to BNC; 120 °C; Ø2,1
- 010-UNF-BNC-10: Low-noise cable; 10 m; UNF 10-32 to BNC; 120 °C; Ø2,1
- 016: Coupler UNF 10-32 (female) to UNF 10-32 (female)
- 017: Plug adapter UNF10-32 (female) to BNC (male)
- 117: Plug adapter UNF10-32 (female) to BNC (female)
- 025: Plug adapter UNF10-32 (female) to TNC (male)

Mounting Accessories

- 001: Sensor probe; M5
- 003: Mounting stud; M5 x 8
- 005: Anti base strain adapter; M5 x 3 to M5 x 7
- 006: Insulating flange; 2 x M5; SW17; 80 °CS
- 029: Adhesive insulating flange; M5; Ø15; >250 °C
- 045: Thread adapter; M5 x 4 male to UNF 10-32 x 4 male
- 046: Thread adapter; M5 x 4 male to 1/4-28 x 4 male
- 008: Rare earth magnetic base; M5; Ø22; 120 °C
- 030: Triaxial mounting cube; M5; □21

Delivery version with accessories kit KD37/01

- 009-UNF-BNC-1,5: Low-noise cable; 1,5 m; UNF 10-32 to BNC; 120 °C; Ø2,1
- 003: Mounting stud; M5 x 8
- 002: Bees wax for temporary sensor attachment
- 005: Anti base strain adapter; M5 x 3 to M5 x 7
- 006: Insulating flange; 2 x M5; SW17; 80 °CS
- 001: Sensor probe; M5
- 008: Rare earth magnetic base; M5; Ø22; 120 °C

Notice: The standard delivery includes an individual data sheet.
This is a non-accredited measurement/calibration and consequently not covered by EA MLA.
On request, we offer a DIN EN ISO/IEC 17025:2018 accredited calibration
of the measurand acceleration in the measuring range 0.1 m/s² to 200 m/s².



Manfred Weber

Metra Mess- und Frequenztechnik in Radebeul e.K.

Meissner Str. 58a

01445 Radebeul

Tel. +49 (0)351 836 2191

Internet: www.MMF.de

Email: Info@MMF.de

Fax: +49 (0)351 836 2940

12.25

