

General Purpose Accelerometers

Model	KS76(a) ⁽¹⁾	KS77(a) ⁽¹⁾	KD37V	KD38V	KD41V	KD42V	KS50	KS51	KS52	KD37	KD38	KD41	KD42
Photos													
Output	ICP [®]	ICP [®]	ICP [®]	ICP [®]	ICP [®]	ICP [®]	Charge	Charge	Charge	Charge	Charge	Charge	Charge
Sensitivity	50 mV/g ⁽¹⁾	50 mV/g ⁽¹⁾	50 mV/g	50 mV/g	100 mV/g	100 mV/g	28 pC/g	28 pC/g	28 pC/g	40 pC/g	40 pC/g	140 pC/g	140 pC/g
f _{min} (3 dB)	0.3 Hz	0.3 Hz	3 Hz	3 Hz	3 Hz	3 Hz	0.1 Hz	0.1 Hz	0.1 Hz	3 Hz	3 Hz	3 Hz	3 Hz
f _{max} (3 dB)	17 kHz	17 kHz	10 kHz	10 kHz	8 kHz	8 kHz	13 kHz	13 kHz	13 kHz	10 kHz	10 kHz	8 kHz	8 kHz
Connector	UNF 10-32	UNF 10-32	UNF 10-32	UNF 10-32	UNF 10-32	UNF 10-32	UNF 10-32	UNF 10-32	TNC	UNF 10-32	UNF 10-32	UNF 10-32	UNF 10-32
Weight	23 gr.	23 gr.	45 gr.	45 gr.	60 gr.	65 gr.	55 gr.	50 gr.	50 gr.	45 gr.	45 gr.	60 gr.	65 gr.
Height	17 mm	17 mm	24 mm	24 mm	29 mm	31 mm	27 mm	23 mm	27 mm	24 mm	24 mm	29 mm	31 mm
Hex. base	17 mm	17 mm	17 mm	17 mm	19 mm	19 mm	19 mm	19 mm	19 mm	17 mm	17 mm	19 mm	19 mm

Seismic Accelerometers

Model	KS48	KB12V	KB12
Photos			
Output	ICP [®]	ICP [®]	Charge
Sensitivity	1000 mV/g	5500 mV/g	6500 pC/g
f _{min} (3 dB)	0.1 Hz	0.1 Hz	0.1 Hz
f _{max} (3 dB)	3.5 kHz	200 Hz	200 Hz
Connector	Binder 713	UNF 10-32	UNF 10-32
Weight	165 gr.	150 gr.	150 gr.
Height	36 mm	42 mm	42 mm
Diameter	32 mm	50 mm	50 mm

Miniature Accelerometers

Model	KS91	KS93	KS94(a) ⁽¹⁾	KS94.100	KS95	KS95.100
Photos						
Output	ICP [®]	Charge	ICP [®]	ICP [®]	ICP [®]	ICP [®]
Sensitivity	10 mV/g	5 pC/g	14 mV/g ⁽¹⁾	100 mV/g	14 mV/g	100 mV/g
f _{min} (3 dB)	0.3 Hz	0.1 Hz	0.3 Hz	0.3 Hz	0.3 Hz	0.3 Hz
f _{max} (3 dB)	40 kHz	20 kHz	20 kHz	40 kHz	20 kHz	40 kHz
Connector	integral	Submini.	Submini.	Submini.	Submini.	Submini.
Weight	1.0 gr.	2.7 gr.	3.5 gr.	3.5 gr.	3.2 gr.	3.2 gr.
Height	7.3 mm	7.5 mm	10.5 mm	10.5 mm	9.5 mm	9.5 mm
Diameter	7.8 mm	10.6 mm	11 mm	11 mm	10.6 mm	10.6 mm

Shock Accelerometers

Model	KD29	KD93
Photos		
Output	Charge	Charge
Sensitivity	18 pC/g	1 pC/g
a _{max}	10 000 g	20 000 g
f _{min} (3 dB)	18 kHz	50 kHz
Connector	UNF 10-32	UNF 10-32
Weight	20 gr.	10 gr.
Height	19 mm	15 mm
Hex. Base	14 mm	12 mm

Triaxial Accelerometers

Model	KS943(a) ⁽¹⁾	KS813	KS513	KB103	KB103SV
Photos					
Output	ICP [®]	ICP [®]	Charge	Charge	ICP [®]
Sensitivity	14 mV/g ⁽¹⁾	100 mV/g ⁽²⁾	15 pC/g	15 pC/g	20 mV/g ⁽²⁾
f _{min} (3 dB)	0.3 Hz	0.3 Hz	0.1 Hz	0.1 Hz	0.3 Hz
f _{max} (3 dB)	17 kHz	8 kHz	10 kHz	5 kHz	5 kHz
Connector	Binder 711	Binder 718	3 x BNC	UNF 10-32	Binder 711
Weight	16 gr.	114 gr.	100 gr.	30 gr.	310 gr.
Height	11 mm	31.6 mm	31 mm	13 mm	12 mm
Width	22x20 mm	30 mm	27 mm	41 mm	200 mm

Industrial Accelerometers

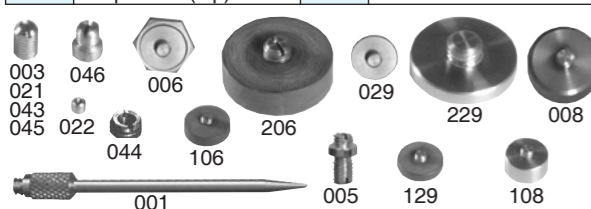
Model	KS74(a) ⁽¹⁾	KS80	KS180V-20	KS180V-40
Photos				
Output	ICP [®]	ICP [®]	4-20 mA	4-20 mA
Sensitivity	50 mV/g ⁽¹⁾	100 mV/g ⁽²⁾	1 .. 20 mm/s	2 .. 40 mm/s
f _{min} (3 dB)	0.3 Hz	0.3 Hz	3 Hz	3 Hz
f _{max} (3 dB)	15 kHz	12 kHz	1000 Hz	1000 Hz
Connector	TNC	Binder 713	Binder 713	Binder 713
Weight	32 gr.	70 gr.	65 gr.	65 gr.
Height	27 mm	34 mm	34 mm	34 mm
Hex. Base	16 mm	22 mm	22 mm	22 mm

Force Transducer

Model	KF24
Photo	
Output	Charge
Sensitivity	300 pC/N
f _{min} (3 dB)	0.1 Hz
F _{COMPRESSION}	2000 N
F _{TENSILE}	300 N
Connector	UNF 10-32
Height	17 mm
Hex. Base	16 mm

Mounting Accessories

Model	Description	Model	Description
001	Accelerometer probe, M5	106	Insulating flange M3
002	Adhesive wax	006	Insulating flange M5
021	M3 x 6 mounting stud	206	Insulating flange M8
003	M5 x 8 mounting stud	129	Adhesive Insul. Pad M3
043	M8 x 10 mounting stud	029	Adhesive Insul. Pad M5
022	Adapter M3 (tap) to M5	229	Adhesive Steel Pad M8
046	Adapter M5 to 1/4"-28	108	Magnetic Base M3
045	Adapter M5 to 10-32	008	Magnetic Base M5
044	Adapter M5 (tap) to M8	005	Anti-base strain bolt



(1) Accelerometers with extension "a" have 2% sensitivity tolerance. Standard tolerance is 20%.
 (2) Models with 5% sensitivity tolerance.

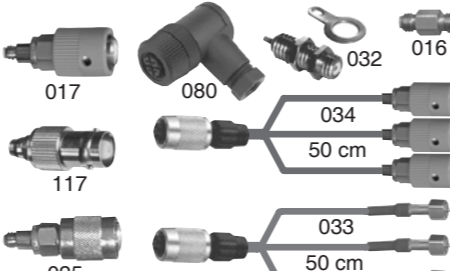
Sensor Cables

Model	Type	Plug 1	Plug 2	Length
009	Charge	UNF10-32	UNF10-32	1.5 m
009/T	Charge	UNF10-32	UNF10-32	1.5 m
010/5	Charge	UNF10-32	UNF10-32	5 m
010/10	Charge	UNF10-32	UNF10-32	10 m
010/15	Charge	UNF10-32	UNF10-32	15 m
010/20	Charge	UNF10-32	UNF10-32	20 m
011	Charge	UNF10-32	BNC	1.5 m
012	Charge	UNF10-32	TNC	1.5 m
013	Charge	UNF10-32	Submin.	1.5 m
050	ICP [®]	UNF10-32	UNF10-32	1.5 m
051	ICP [®]	UNF10-32	BNC	1.5 m
052	ICP [®]	UNF10-32	TNC	1.5 m
053	ICP [®]	BNC	TNC	1.5 m
054	ICP [®]	UNF10-32	M3	1.5 m
085	ICP [®]	Binder713	pigtail	5 m
086	ICP [®]	Binder713	BNC	5 m
087	ICP [®]	Binder718	pigtail	5 m
088	ICP [®]	Binder718	Binder711	5 m

* Cable 009/T is temperature resistant up to 200 °C.

Cable Adapters

Model	From	To
017	UNF 10-32 (female)	BNC (male)
117	UNF 10-32 (female)	BNC (female)
025	UNF 10-32 (female)	TNC (male)
016	UNF 10-32 (female)	UNF 10-32 (female)
033	Binder 711 (female)	3 x UNF 10-32 (male)
034	Binder 711 (female)	3 x BNC (male)
032	UNF 10-32 front panel socket (female)	
080	Binder 713 plug with screw terminals	



Charge and ICP[®] Amplifiers

Model	M68D1	M68D3	M68R1 ⁽³⁾
Photos			
Inputs	Charge / ICP [®]		
Channels	1	3	1
Charge gain	0.1 / 1 / 10 / 100 / 1000 mV/pC; rotary switch		
Voltage gain	0 / 20 / 40 / 60 dB; rotary switch		
Integration	none (acceleration); single (velocity); double (displacement)		
Frequ. range	0.1 .. 50 000 Hz		
High pass	0.1 / 3 Hz; 40 dB/decade; rotary switch		
Low pass	0.1 / 0.3 / 1 / 10 / 20 / 50 kHz; 40 dB/decade; rotary switch		
LED Indicators	low output (< 5%); overload; ICP [®] current		
Connectors	BNC inputs / BNC outputs		
Power supply	5 .. 15 VDC / 0.16 A	5 .. 15 VDC / 0.5 A	5 .. 15 VDC / 0.16 A
Battery	4 x Mignon (AA)	-	-
Case	Benchtop	Benchtop	19" rack module ⁽³⁾
Dimensions	105 x 40 x 150 mm ³	105 x 90 x 140 mm ³	7 WU x 3 HU x 190 mm

(3) Rack case with mains supply for 6 units (M68B6) or 12 units (M68B12) available.

Remote Charge Converters

Model	ICP100	ICP110	ICP120
Photo			
Input	Charge		
Output	ICP [®]		
Gain	0.1 mV/pC	1 mV/pC	10 mV/pC
Frequ. range	0.25 .. 25 000 Hz		
Connectors	UNF 10-32 input; BNC output		
Power supply	ICP [®] constant current 4 .. 20 mA		
Dimensions	72 mm x ø 22 mm		

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ICP[®] Conditioning Modules

Model	M28	M32
Photos		
Input	ICP [®]	
Gain	1	1 / 10 / 100
Frequ. range	0.1 .. 100 000 Hz	0.1 .. 50 000 Hz
Low pass	-	Plug-in filter FB2
LED Indicators	3 level sensor status; power supply	
Connectors	BNC input / BNC output	
Power supply	5 .. 26 VDC / 0.1 A	5 .. 26 VDC / 0.2 A
Dimensions	33 x 59 x 44 mm ³	56 x 59 x 44 mm ³



Multichannel ICP[®] Amplifiers

Model	M108	M116
Photos		
Input	ICP [®]	
Channels	8	16
Gain	1 / 10 / 100; slide switches	
Frequ. range	0.1 .. 50 000 Hz	
Low pass	Plug-in filter FB2	
LED Indicators	3 level sensor condition; overload; power	
Shared Output	selectable by push-button	
Connectors	BNC input / BNC output / screwless terminal output at rear	
TEDS	read / write interface via RS-232 for IEEE1451.4 sensors	
Power supply	115 / 230 VAC; 22 .. 28 VDC	
Case	Benchtop, plastic	19" rack case
Dimensions	225 x 85 x 220 mm ³	19" x 2 HU(88 mm) x 262 mm



Typical accessories kit Available for many accelerometers Ordering option: /01

CALIBRADORES PARA ACELEROMETROS


Model	VC10	VC11	VC12	VC13	VC100
Photos	<ul style="list-style-type: none"> • Most powerful portable calibrator • Load independent • Quartz stabilized • Battery powered • Traceable to PTB standard 				
Frequency	159.15 Hz (1000 s ⁻¹)				70 .. 10 000 Hz by knob or RS-232 interface
Vibration level	10 m/s ² / mm/s / μm	10 m/s ² / mm/s / μm	9.81 m/s ² / mm/s / μm 10 m/s ² / mm/s / μm	10 m/s ² / mm/s / μm	1 m/s ²
Accuracy	± 3 % at 10 .. 40 °C; 5 % at 30 .. 55 °C				± 3 % at 70 .. 1000 Hz; ± 5 % at 1000 .. 10 000 Hz
Max. load	300 gr.	520 gr.	520 gr.	520 gr.	400 gr.
Force source ⁽⁴⁾	-	-	-	0 .. 10 N 50 .. 3000 Hz	-
Sensitivity Display	-	-	-	-	LCD screen, for charge, ICP® and voltage sensors
PC interface	-	-	-	-	RS-232, PC software for parameter setting, frequency sweep and calibration data base included
Power supply	Built-in accumulator or mains plug adapter / charger				Built-in accumulator or external mains adapter / charger


(4) External generator signal required


ACCELEROMETERS PIEZOELECTRIC Equipos para Medida de vibracion



MONITORIZACION DE VIBRACIONES

Model	VM12	VM15
Photos	 <p>Belt case VM15-G (option) also for VM12</p> <p>Temperature Probe VM15-T (option)</p>	
Vibr. acceleration	-	0.5 .. 200 m/s ² ; 3 Hz.. 10 kHz 0.5 .. 200 m/s ² ; 1 .. 10 kHz
Vibration velocity	0.5 .. 200 mm/s; 10 .. 1000 Hz	0.5 .. 200 mm/s; 3 .. 1000 Hz
Vibr. displacement	-	5 .. 2000 μm; 3 .. 200 Hz
Temperature	-	2 .. 200 °C; thermocouple probe
Rectification	true RMS	true RMS or true peak-to-peak
Display	3 ½ digits LCD	3 ½ digits LCD
Battery	9 V (6F22)	
Sensor	ICP® compatible with magnetic base and probe	
Dimensions	instrument: 125 x 60 x 25 mm ³ ; sensor: Ø 21 x 46 mm ²	

Model	M10v	M12
Photos	 <p>New</p>	
Vibr. acceleration	-	20 / 100 / 200 m/s ²
Vibration velocity	50 mm/s	20 / 100 / 200 mm/s
Vibr. displacement	-	200 / 1000 / 2000 μm
Band pass filter	10 .. 1000 Hz	FB2 high pass and FB3 low pass filter; 1 Hz .. 50 kHz
Rectification	true RMS	true RMS or true peak-to-peak
Outputs	DC (RMS); AC wideband; 4-20 mA (isolated)	DC (RMS and pk-pk); AC wideband; 4-20 mA (isolated)
Relay output	40 VAC/2 A; delay adjustable 0 .. 25 s; hold time 2 / 8 s	
Display functions	LEDs for alarm, overload and sensor check	LEDs for alarm, overload and sensor check; LED bar graph vibration level
Sensor input	ICP®	
Power supply	15 .. 26 VDC	
Dimensions	22 x 76 x 111 mm ³	

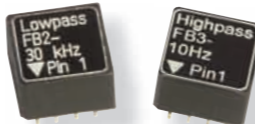
Model	VS4	VS6
Photo	 <p>New</p> <p>New</p> <ul style="list-style-type: none"> • Built-in accelerometer • No cabling required • Over 1 year battery life • Machine condition monitoring by LEDs • IP65 	
Monitored Quantity	Vibration velocity to ISO 10816	
Threshold ranges	2.5 .. 50 and 10 .. 200 mm/s	
Frequency range	3/10 .. 1000 Hz	
Output	2 LEDs, pre-alarm / alarm	Relay, form C contact
Power supply	2 AA / Mignon batteries	5 .. 30 VDC / < 40 mA
Dimensions (Ø x h)	88 mm x 44 mm	70 mm x 38 mm

Plug-In Filter Modules (M12 + M32)

The plug-in filter modules FB2 (low pass) and FB3 (high pass) are available with the following 3 dB cut-off frequencies:

FB2: 0,1 / 0,3 / 0,5 / 1,0 / 3,0 / 5,0 / 10 / 30 / 50 kHz Butterworth, 4th order

FB3: 2 / 3 / 5 / 10 / 30 / 50 / 100 / 300 / 500 / 1000 Hz Butterworth, 2nd order



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