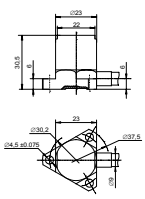
AP Tech

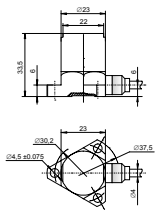
Using a different piezo electric material makes this range of accelerometers fit for applications where the surface temperature of the test-object is high (up to 250 degrees Celsius). Type AP63 may even be used up to 400 degrees Celsius. The integral cable of AP63 can also handle this high temperature thanks to a combination of ceramic and flexible metal tube screening.

High temperature accelerometers

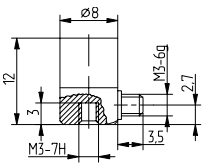
Parameter	Unit	AP62	AP63	AP95	AP96	AP97
Charge sensitivity (+/- 10%)	pC/g	100	10	3	10	10
	pC/ms²	10.2	1.02	0.31	1.02	1.02
Voltage sensitivity (+/- 10%)	mV/g	-	-	-	-	-
	mV/ms²	-	-	-	-	-
Amplitude range	g rms	2000	5000	15,000	10,000	10,000
Resolution	g rms	-	-	-	-	-
Mechanical shock limit	g peak	5000	10,000	25,000	20,000	20,000
Frequency range (+/- 1 dB)	Hz	2 to 7000	2 to 7000	1 to 15,000	1 to 10,000	1 to 10,000
Resonant frequency	kHz	>18	>18	>50	>45	>45
Transverse sensitivity	%	<5	<5	<3	<3	<3
Base strain sensitivity	g/µm	<0.01	<0.01	<0.001	<0.001	<0.001
Temperature range	°C	-60 to +250	-60 to +400	-70 to +250	-70 to +250	-70 to +250
Insulation resistance	MΩ	>1000	>1000	>1000	>1000	>1000
Capacitance	pF	4000 to 4800	1300 to 1700	600 to 900	800 to 1200	800 to 1200
Isolated base		Floating output	Floating output	No	No	No
Excitation voltage	Volt DC	-	-	-	-	-
Constant current	mA	-	-	-	-	-
Output impedance	Ω	-	-	-	-	-
Output bias voltage	Volt DC	-	-	-	-	-
Settling time	second	-	-	-	-	-
Construction		Compression	Compression	Shear	Shear	Shear
Piezo material		ZTP26	THAB	ZTP26	ZTP26	ZTP26
Sensor connector		-	-	M3	10-32 UNF	10-32 UNF
Integral cable length	meter	To be specified	To be specified	-	-	-
Connecting cable		Metal armoured	Metal tube	AK06	AK04	AK04
Cable connector		To be specified	To be specified	10-32 UNF	10-32 UNF	10-32 UNF
Side/Top connection		Side	Side	Side	Top	Side
Mounting method		3x M4.5	3x M4.5	M3	M5	M5
Housing material		S.Steel	S.Steel	Titanium	Titanium	Titanium
Weight without cable	gram	95	98	2.6	12	11
Notes		Industrial accelerometer	Industrial accelerometer			



AP62



AP63



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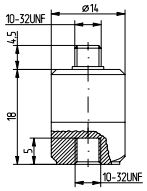
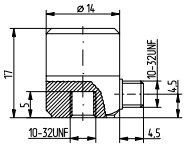


AP96



AP97