

Type AP31, AP22 and AP2022 are specially designed for Hand/Arm vibration measurements in combination with the Hand/Arm adapters AP5022, AP5023 and AP5024. The high resonance frequency of these accelerometers avoids incorrect measurements on impulsive tools.

Human vibration Hand/Arm accelerometers

AP22



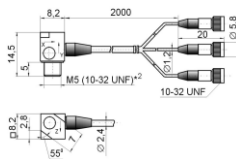
AP2044B(-30)



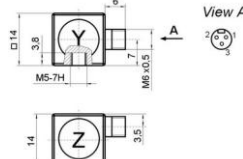
AP31



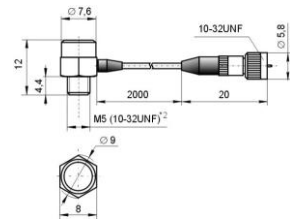
Parameter	Unit	AP22	AP2044B(-30)	AP31
Charge sensitivity (+/- 10%)	pC/g	1*	-	1.1
	pC/ms ²	0.1	-	0.1
Voltage sensitivity (+/- 10%)	mV/g	-	10	30
	mV/ms ²	-	1.02	3.06
Amplitude range	g rms	25,000	500	100
Resolution (1 Hz to 10 kHz)	g rms	-	<0.002	<0.001
Mechanical shock limit	g peak	50,000	500	200
Frequency range (+/- 1 dB)	Hz	05. To 22,000	05 to 12,000	0.5 to 20,000
Resonant frequency	kHz	>80	36	>60
Transverse sensitivity	%	<5	-	<3
Base strain sensitivity	g/μm	<0.0005	<5	<0.0001
Temperature range	°C	-60 to +150	-	-60 to +150
Insulation resistance	MΩ	>10,000	-40 to 125	>10,000
Capacitance	pF	500 to 700	-	600 to 900
Isolated base		No	-	No
Excitation voltage	Volt DC	-	No	-
Constant current	mA	-	+18 to 30	-
Output impedance	Ω	-	2 to 20	-
Output bias voltage	Volt DC	-	<500	-
Settling time	second	-	10 to 13	-
Construction		Shear	4	Shear
Piezo material		ZTP19	Shear	ZTP19
Sensor connector		-	ZTP19	-
Integral cable length	meter	2	3-pin miniature	2
Connecting cable		-	AK21	-
Cable connector		3x 10-32 UNF	3x BNC	10-32 UNF
Side/Top connection		Side	-	Side
Mounting method		M5 stud	Side	M5 stud
Housing material		Titanium	M5 bold	Titanium
Weight without cable	gram	4	Titanium	1.5
Notes		* Charge sensitivity +/- 20%		



AP22



AP2044B



AP31