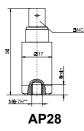
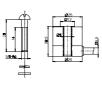


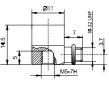
APTech general purpose accelerometers are designed to cover of a wide range of applications without the need of having another sensor for each measurement-job. The sensors are optimised for wide frequency- and amplitude range while having medium range dimensions and weight. The annular shear construction makes these accelerometers relatively insensitive to external influences such as changes in temperature, base-strain and magnetic fields. Type AP90 has been specifically designed for leak detection on pipelines. Types AP37 and AP2037 are ideally suited for control-loop applications in vibration excitation systems.

		AP28	AP35-30	AP35-100	AP37
General purpose accelerometers		8			
Parameter	Unit	-			
Charge sensitivity (+/- 10%)	pC/g	-	-	-	10
	pC/ms²	-	-	-	1.02
Voltage sensitivity (+/- 10%)	mV/g	30	30	100	-
	mV/ms²	3.06	3.06	10.2	-
Amplitude range	g rms	160	150	50	10,000
Resolution	g rms	0.0001	0.0001	0.0003	-
Mechanical shock limit	g peak	1000	500	500	15000
Frequency range (+/- 1 dB)	Hz	0.5 to 10,000	1 to 12,000	1 to 12,000	0.5 to 15,000
Resonant frequency	kHz	>30	>40	>40	>45
Transverse sensitivity	%	<5	<5	<5	<5
Base strain sensitivity	g/µm	<0.005	<0.005	<0.005	<0.005
Temperature range	°C	-60 to +125	-60 to +125	-60 to +125	-60 to +150
Insulation resistance	MΩ	-	-	-	>10,000
Capacitance	pF	-	-	-	600 to 800
Isolated base		No	Yes	Yes	No
Excitation voltage	Volt DC	+18 to +30	+18 to +30	+22 to +30	-
Constant current	mA	2 to 20	2 to 20	2 to 20	-
Output impedance	Ω	<500	<500	<500	-
Output bias voltage	Volt DC	+9 to +13	+9 to +13	+9 to +13	-
Settling time	second	3	3	3	-
Construction		Shear	Shear	Shear	Shear
Piezo material		ZTP19	ZTP19	ZTP19	ZTP19
Sensor connector		BNC	-	-	10-32 UNF
Integral cable length	meter	-	2	2	-
Connecting cable		-	Metal tube	Metal tube	AK04
Cable connector		-	Open end	Open end	10-32 UNF
Side/Top connection		Тор	Side	Side	Side
Mounting method		M6	M6 bold	M6 Bold	M5
Housing material		S.Steel	S.Steel	S.Steel	Titanium
Weight without cable	gram	40	39	39	9
Notes					









AP35-30

AP35-100

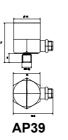
AP37



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		AP2037	AP39	AP40	AP51
General purpose accelerometers				3	0
Parameter	Unit				
Charge sensitivity (+/- 10%)	pC/g pC/ms²	-	20 2.04	20 2.04	20 2.04
Voltage sensitivity (+/- 10%)	mV/g	10	-	-	-
•	mV/ms²	1.02	-	-	-
Amplitude range	g rms	500	5000	5000	5000
Resolution	g rms	0.0003	-	-	-
Mechanical shock limit	g peak	5000	10,000	10,000	10,000
Frequency range (+/- 1 dB)	Hz	0.5 to 15,000	0.5 to 10,000	0.5 to 10,000	0.5 to 10,000
Resonant frequency	kHz	>45	>35	>35	>35
Transverse sensitivity	%	<5	<5	<5	<5
Base strain sensitivity	g/µm	<0.005	<0.02	<0.025	<0.025
Temperature range	°C	-60 to +125	-60 to +150	-60 to +150	-60 to +150
Insulation resistance	MΩ	-	>10,000	>10,000	>10,000
Capacitance	pF	-	600 to 800	600 to 800	600 to 800
Isolated base		No	No	No	No
Excitation voltage	Volt DC	+15 to +30	-	-	-
Constant current	mA	2 to 20	-	-	-
Output impedance	Ω	<500	-	-	-
Output bias voltage	Volt DC	+8 to +10	-	-	-
Settling time	second	3	-	-	-
Construction		Shear	Shear	Shear	Shear
Piezo material		ZTP19	ZTP19	ZTP19	ZTP19
Sensor connector		10-32 UNF	10-32 UNF	10-32 UNF	10-32 UNF
Integral cable length	meter	-	-	-	-
Connecting cable		AK10	AK04	AK04	AK04
Cable connector		BNC	10-32 UNF	10-32 UNF	10-32 UNF
Side/Top connection		Side	Side	Side	Тор
Mounting method		M5	M5 stud	M5	M5
Housing material		Titanium	Titanium	Titanium	Titanium
Weight without cable	gram	10	12	12	12
Notes	J				











APTech general purpose accelerometers are designed to cover of a wide range of applications without the need of having another sensor for each measurement-job. The sensors are optimised for wide frequency- and amplitude range while having medium range dimensions and weight. The annular shear construction makes these accelerometers relatively insensitive to external influences such as changes in temperature, base-strain and magnetic fields. Type AP90 has been specifically designed for leak detection on pipelines. Types AP37 and AP2037 are ideally suited for control-loop applications in vibration excitation systems.

		AP57	AP77	AP90	AP98-100
General purpose accelerometers		3	6-		
Parameter	Unit				
Charge sensitivity (+/- 10%)	pC/g	80	20	80	-
	pC/ms²	8.16	2.04	8.16	-
Voltage sensitivity (+/- 10%)	mV/g	-	-	-	100
	mV/ms²	-	-	-	10.2
Amplitude range	g rms	2000	5000	2000	50
Resolution	g rms	-	-	-	0.0003
Mechanical shock limit	g peak	4000	10,000	4000	1000
Frequency range (+/- 1 dB)	Hz	0.5 to 8000	0.5 to 12,000	0.5 to 8000	0.5 to 12,000
Resonant frequency	kHz	>20	>35	>20	>40
Transverse sensitivity	%	<5	<5	<5	<5
Base strain sensitivity	g/µm	<0.005	<0.005	<0.005	<0.005
Temperature range	°C	-60 to +150	-60 to +150	-60 to +150	-60 to +125
Insulation resistance	MΩ	>10,000	>10,000	>10,000	-
Capacitance	pF	700 to 1000	600 to 800	700 to 1000	-
Isolated base		No	Optional	No	No
Excitation voltage	Volt DC	-	-	-	+22 to +30
Constant current	mA	-	-	-	2 to 20
Output impedance	Ω	-	-	-	<500
Output bias voltage	Volt DC	-	-	-	+9 to +13
Settling time	second	-	-	-	5
Construction		Shear	Shear	Shear	Shear
Piezo material		ZTP19	ZTP19	ZTP19	ZTP19
Sensor connector		10-32 UNF	-	-	10-32 UNF
Integral cable length	meter	-	2	2	-
Connecting cable		AK04	-	-	AK10
Cable connector		10-32 UNF	10-32 UNF	10-32 UNF	BNC
Side/Top connection		Side	Side	Тор	Тор
Mounting method		M5	Adhesive	M5	M5
Housing material		Titanium	Titanium	Titanium	S.Steel
Weight without cable	gram	32	10	42	40
Notes				Leak detection sensor	

