

Industrial piezo-electric accelerometer

A/81/F A/81/F/HT

230pC/g, 300°C max (/F) • 35pC/g, 400°C max (/F/HT) 150gm wt. • isolated output hermetic ; integral hardline cable

H igh output, industrial grade accelerometer with integral hardline cable, and available in two temperature ratings. Hermetic construction is proof against degradation under severe operating conditions including high pressure fluid immersion. /F version is suitable for milli g monitoring with appropriate instrumentation.

High temperature vibration measurement may be subject to increased noise level caused by insulation resistance drop and high level of pyro-electric charge generation, necessitating bandwidth limitation. Low level measurement threshold is determinated by wide band noise, series and common mode electrical interference. These can be minimised by choice of instrumentation and transducer cabling. Construction comprises electrically isolated KONIC sensing element and all welded case and case/cable seal for maximum measurement integrity and reliability. Proof pressure testing and elevated temperature burn in is recommended where appropriate.



options

- > close tolerance output
- > temperature calibration to 400°C (/HT)
- > proof pressure testing to 100bar
- cable/connector options are shown in Fig.1







CONVERSION MODE	KO	KONIC	
	A/81/F	A/81/F/HT	
Charge sensitivity pC/g	210/260	25/45	
Capacitance pF (ex cable)	1400/2000	300/900	
Resonant frequency kHz		10	
Cross axis error % max	See Carlos Maria	5	
Temperature range °C	-50/+300	-50/+400	
Charge sensitivity	-5% @ -50°C	-5% @ -50°C	
deviation re 20°C	+15% @ +300°C	+40% @ +400°C	
Pyro-electric output, g/°C	0.1	0.1	
Pyro-electric corner freq. Hz	0.001	0.001	
Base strain sens. g/µ strain	0.01	0.01	
Max continuous accn. g sine	10	1000	
Case material	s/steel	inconel	
	303 S31		
Mounting	2 x 6.4mm ø holes	2 x 6.4mm ø holes @ 38.1mm ctrs	
Weight gm	1	150	
Case seal	welded, h	welded, hermetic	