

CONTROL ACCELERATION CONVERTERS

VPI

VPI-218-K; VPI-217-K; VPE-157-K

The reference converters VPI are designed to convert a vibration acceleration into a proportional electric charge. Together with secondary devices, they can be used as part of vibration converter monitoring systems.

The housing of the VPE vibration sensor is made of stainless steel. The sensing element is a piezoelectric bimorph made by the means of diffusion welding. Electrical characteristics of the sensing element are thermally stabilized.







Parameters	VPI-218-K	VPI-217-K	VPE-157-k
Sensitivity, pC/(m/s²) (± 2%)	0.5	1/1/1	-
Sensitivity, μΑ/(m/s²) (± 2%)	=	-	10
Operating range, m/s²	8000	4000	150
Shock limit, m/s²	10000	10000	-
Amplitude nonlinearity, %		±1	
Operating frequency range, Hz ±10% ±3 dB	1-14000 -	1-6000 0.5-10000	1-3000 -
nstallation resonance frequency, kHz	40	22	9
Transverse resonance frequency, kHz	40	22	9
Transverse Sensitivity, %	± 3		
Insulation resistance in normal conditions, not less than, Ohm	1 * 10 °		-
Weight without cable, gm	50	100	120
Dimensions, mm	30x20x25	21x40x48	28x44x50
Case Material	titanium	stainless steel	titanium
Sensing element	piezoelectric		
Connector	OCCP-50 PC-		4
Mounting	M5	hole Ø 5.5	M5





