



ACCELERATION CONVERTERS

VPI-061

VPI-061-Q0,5; VPI-061-Q1; VPI-061-Q2; VPI-061-Q5; VPI-061-Q10;
VPI-061-Q25; VPI-061-Q50; VPI-061-Q100

Making to order



VPI converters are designed to convert a vibration acceleration into a proportional electrical charge.

Together with secondary devices, they can be used as part of vibration monitoring and vibration diagnostic systems of the power plants state, elements of rotating power equipment, oil pumping and gas compression stations, and other industrial facilities.

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	061-Q0.5	061-Q1	061-Q2	061-Q5	061-Q10	061-Q25	061-Q50	061-Q100
Sensitivity, pC/(m/s ²), (± 10%)	0,5	1	2	5	10	25	50	100
Operating range, m/s ²	8000	5000	5000	5000	1000	1000	100	100
Shock limit, m/s ²	10000	10000	10000	10000	3000	3000	-	-
Amplitude nonlinearity, %	±2							
Frequency range, Hz								
±10%	1-14000	1-8000	1-7000	1-5000	1-3000	1-2000	1-1000	1-1000
±3 dB	0.5-10000		0.5-10000					
Installation resonance frequency, kHz	40	22	20	18	9	6	4.5	3
Transverse resonance frequency, kHz	40	22	20	18	9	6	4.5	3
Transverse Sensitivity, %	±5							
Insulation resistance in normal conditions, not less than, Ohm	1 * 10 ⁸							
Temperature range, °C	-40 ÷ 120							
Temperature coefficient, %/ °C	0.1							
Weight without cable, gm	20	35	35	120	120	150	250	280
Dimensions, mm	11x20x25	14x24x30	14x24x30	13x35x40	15x35x40	15x35x40	19x35x40	25x35x40
Case Material	stainless steel							
Sensing element	piezoelectric							
Connector	10-32 UNF							
Mounting	4 holes 5.5mm							

