



ACCELERATION CONVERTERS

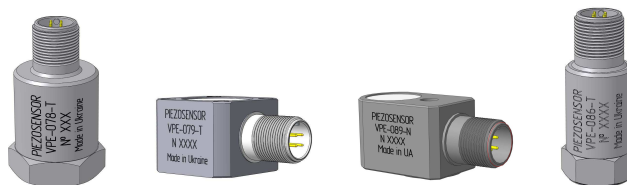
# VPE

VPE-078; VPE-079; VPE-089; VPE-086



VPE converters are designed to convert the vibration acceleration of machine units and mechanisms into a proportional electrical signal.

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	VPE-078-I (N)	VPE-079-I (N)	VPE-089-I (N)	VPE-086-I (N)
Sensitivity, mkA/(m/c <sup>2</sup> ) (mB/(m/c <sup>2</sup> )), (± 5%)	10(1; 100)	10(1; 100)	10(1)	10(1)
Operating range, m/s <sup>2</sup>	150 (300)			
Amplitude nonlinearity, %	± 2			
Amplitude-frequency characteristic from 10 to 1000 Hz, %	± 5			
Installation resonance frequency, kHz	20	20	20	40
Transverse resonance frequency, kHz	20	20	20	40
Transverse Sensitivity, %	± 5			
Temperature range, °C	-40 ÷ 120			
Temperature coefficient, %/ °C	0.05			
Vibration converter consumption current, mA	3 ÷ 4			
Dimensions, mm	56x30x34	30x35x53	25x25x58	48.5x22x25
Weight without cable, gm	100	150	150	80
Case Material	stainless steel			
Sensing element	piezoelectric			
Mounting	hole M6	4 holes Ø 5.5	hole Ø 6.2	hole M6

