



VIBRATION VELOCITY CONVERTERS

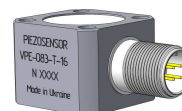
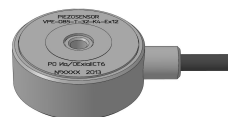
# VPE-085; VPE-083.



VPE converters are designed to convert vibration velocity into a proportional electrical signal.

Complete with secondary devices, they can be used as part of vibration monitoring systems and vibration diagnostics of the state of power plants, parts of power rotating equipment of electrical, oil pumping and gas compressor stations and other industrial facilities.

The body of the VPE vibration converter is made in stainless steel. A sensitive element is fixed in the housing. The design of the sensing element is a piezoelectric bimorph made by diffusion welding. The electrical characteristics of the sensing element are thermally stabilized.



Options	085	083
Vibration velocity conversion range, mm/s		32 (16, 64)
Sensitivity, mA/( mm /s) (± 10 % (5 *))		0.5 (1.0; 0.25)
Amplitude characteristic nonlinearity, %		± 5
Frequency range, Hz		10-1000
Frequency response unevenness		
- in the frequency range from 20 to 630 Hz		± 10
- in the frequency range from 10 to 1000 Hz		+10 to - 20
Transverse Sensitivity, %		5
Temperature range, °C		-30 ÷ +80
Temperature coefficient of sensitivity, %/ °C		0.1
Supply voltage, V		24 ± 6
Current consumption of the vibration converter, mA		4 ÷ 20
Setting time, 4-20 mA, no more than s		30
Line resistance at 24 V supply voltage, no more than Ohm		500
The degree of protection of the housing of the vibration converter from the penetration of water, dust and foreign particles in accordance with GOST 14254		IP 67
Explosion protection degree		RO IA/0ExiaIICT6
Dimensions, mm	21x48x58	30x35x52.5
Case Material		12X18H10T
Weight without cable, gm	250	120
Mounting	hole Ø 6.2	4 holes Ø 5.5

