

Vibration Velocity Transducers VTIV02, VTIV03

Destination:

- The measure of vibration velocity in stationary vibration diagnostic systems with standard current output (4 - 20 mA).

Features:

- Conversion of the signal proportionate to vibration velocity from the piezoelectric element into standard 4...20 mA current signal.
- The electric piezoelement and built-in transducer insulation from the body excludes effects upon measurements of ground loop currents.
- A strong structure, hermetically sealed body and one-piece armored cable.
- A stability of characteristics and operational reliability.
- Transmission of the current signal for a distance upto 1 000 m.



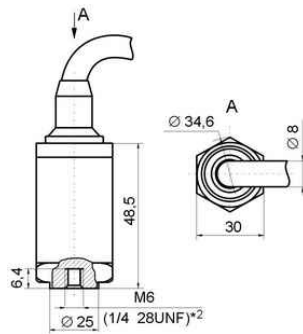
Parameter	Unit	VTIV02*3	VTIV03*3
Vibration velocity conversation factor into current signal 4 ... 20mA.....	mA • s/mm	0.8 ± 0.025	
Relative transverse sensitivity.....	%	< 5	
Measured vibration velocity range RMS....	mm/s	0.1...20*1	
Maximum vibration acceleration (peak value).....	m/s ²	100	
Operating temperature range.....	°C	- 40 ...+ 85	
Frequency range (ripple ±1 dB).....	Hz	5 ...1 000 (10...1 000)*2	
Self-resonant frequency in attached condition.....	kHz	> 5	
Amplitude nonlinearity.....	%	± 2.5	
Voltage supply (const.).....	V	8...25	
Load resistance in output circuit at the voltage supply 9...25 V.....	Ohm	0 ... 250	
Turn-on time.....	s	< 4	
Housing material.....	-	stainless steel	
Built-in cable length.....	m	2*2	
Weight (without cable).....	gram	95	
Cable shield.....	-	flexible metal pipe	

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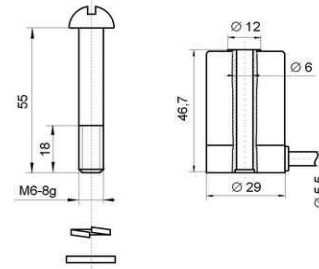
Tel:001-6042885745 Fax:001-510-839-5888 Cell:001-7788299768

Website: www.vti-test.com Email:info@vti-test.com

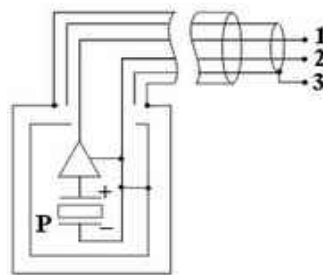
General view of VTIV02



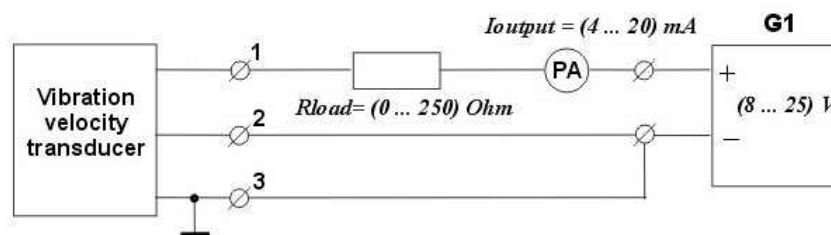
General view of VTIV03



The typical electrical circuit of VTIV02, VTIV03



Connection circuit



Additional order accessories:

- calibrators VTIT01m, VTIT02;
- power unit VTIS03;
- magnet mounting base VTIM04.

*1 - to be increased to 200 mm/s when ordering;

*2 - to be determined when making out an order;

*3 - 1ExibIICT4 explosion-proof construction.

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