

## Vibration Velocity Transducers VTIV01, VTIV01-01

### Destination:

- The measure of vibration velocity in stationary vibration diagnostic systems.

### Features:

- The built-in preamplifier provides conversion of the output signal from the piezoelectric element into low-resistance voltage signal, which is proportional to vibration velocity.
- The electric piezoelement and built-in amplifier transducer insulation from the body excludes effects upon measurements of ground loop currents.
- A strong structure, hermetically sealed body and one-piece armoured cable.
- A stability of characteristics and operational reliability.



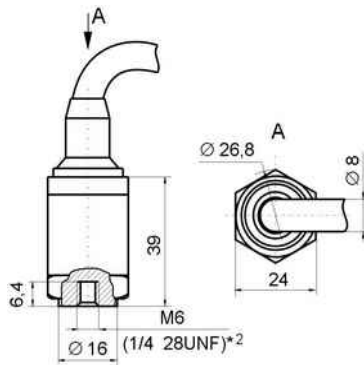
Parameter	Unit	VTIV01	VTIV01-01
Axial sensitivity ( $\pm 5\%$ ).....	mV/mm/s	4.1	
Relative transverse sensitivity.....	%	< 5	
Measured velocity range.....	mm/s	0.1...1 000	
Max. shock limit (peak value).....	$g^{*2}$	$\pm 500$	
Operating temperature range.....	$^{\circ}C$	- 40 ...+ 125	
Frequency range (ripple $\pm 1$ dB).....	Hz	2 ...2000	50...5000
Self-resonant frequency in attached condition.....	kHz	> 25	
Root-mean-square noise voltage value.....	$\mu V$	10	
Max. output voltage.....	V	$\pm 5$	
Power:			
- voltage.....	V	+ (18 ... 30)	
- current.....	mA	3.6 ... 20	
Constant output voltage level.....	V	+ (9 ...13)	
Housing material.....	-	stainless steel	
Built-in cable length.....	m	$2^{*2}$	
Weight (without cable).....	gram	70	
Cable shield.....	-	flexible metal pipe	
Supplied accessories.....	-	stud VTIH0106	

Address:1599 Maritime St. Oakland, Ca 94607, USA

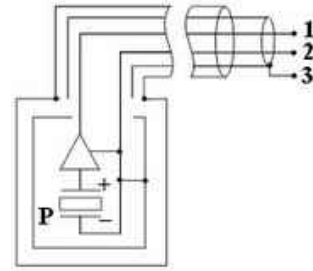
Tel:001-6042885745 Fax:001-510-839-5888 Cell:001-7788299768

Website: [www.vti-test.com](http://www.vti-test.com) Email:info@vti-test.com

General view of VTIV01,  
VTIV01-01



Electrical circuit



Additional order accessories:

- calibrators VTIT01m (VTIT01m-01), VTIT02;
- power unit VTIS03;
- magnet mounting bases VTIM01, VTIM03, VTIM04;
- studs VTIH0610, VTIH0806, VTIH1006.

\*<sup>1</sup> -  $1g = 9.807 \text{ m} \cdot \text{s}^{-2}$  or  $10 \text{ m} \cdot \text{s}^{-2} = 1.02 \text{ g}$ ;

\*<sup>3</sup> - to be determined when making out an order.