

VIBTRANSMITTER VT1002D

Versatile module for condition monitoring and diagnostics of machinery with constant and variable rotational speed

DESCRIPTION

The VT1002D is a versatile, online condition monitoring and diagnostic system for constant and variable speed rotating machinery. The system is a perfect solution for automated protection systems of rotating machines.

The system can be integrated with the control system using the 4..20mA current output. The AC 10Vpp output makes the device compatible with portable vibration meters (SMB connector). Additionally, the relay outputs can be used as protective elements. In case of exceeding an alarm threshold, the VT1002D can perform machine's emergency shutdown to avoid further serious damage.

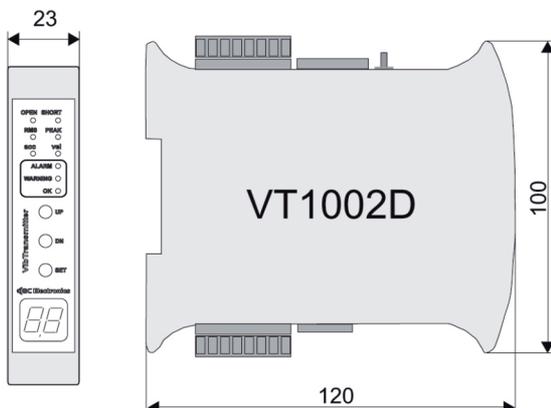
KEY FEATURES

- ICP ® vibration sensor input
- sensor circuit control: OPEN/SHORT
- 4..20mA output
- vibration velocity or acceleration measurement
- RMS or PEAK calculation
- warning and alarm output relays with optional output action delays
- AC 10Vpp output (SMB connector)
- clear double-digit LED display
- DIN rail mounting



PARAMETERS

sensor type	100 mV/g
measured values	velocity or acceleration
calculated estimates	0-PEAK or RMS
default measurement range	0-100 mm/s or m/s ²
power supply	24 VDC
power consumption	<4 W
low pass filter	1 or 10 kHz, 24 dB
high pass filter	3 or 10 Hz, 12 dB
in/out insulation	1 kV
current output	4..20mA
voltage output	AC, 10 Vpp max, SMB connector
output action delay	0-16 with 1 s increments
ALARM level	0-100%
WARNING level	0-100%
type of contacts	potential-free, NC or NO
contacts load	30 VDC/100mA
operational temperature	-20..+60°C
humidity	<95% RH
IP code	IP 40
dimensions	23x100x120 (WxHxL)



APPLICATION

The VT1002D module can be used for vibration-based condition monitoring and protection of devices such as: fans, pumps, reciprocating compressors, mixers, separators, etc.