

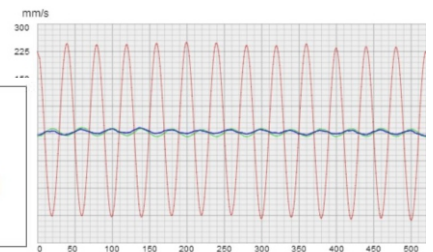
Vibrating machinery **online** monitoring



wise monitoring online vibration monitoring system allows the user to prevent malfunction of manufacturing equipment. When performance deviates from acceptable operation conditions, the system manages warnings and alarms with EtherNet interface and digital outputs.

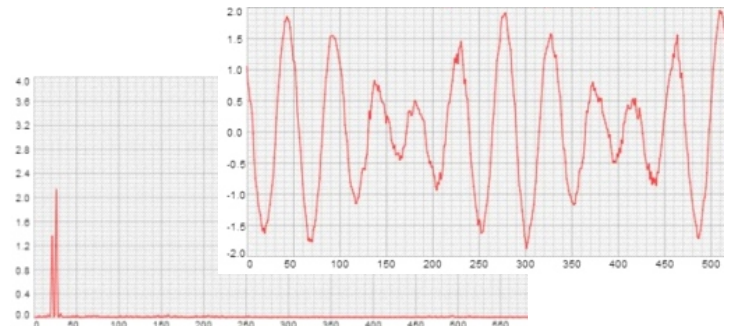
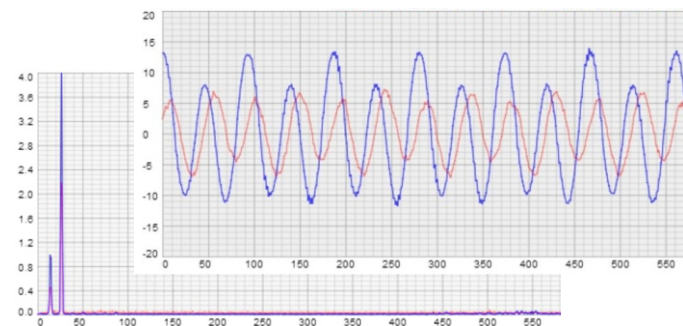
Triaxial analysis: acceleration, velocity and displacement

		unit	x	y	z	xyz
acceleration	RMS	g	2.7	0.1	0.1	2.7
velocity	RMS	mm/s	166.9	7.5	4.5	167.1
displacement	pp	mm	3.31	0.34	0.75	3.41



Equipment malfunction: **transversal non desired vibration**

- Asynchronous motovibrators speed
- Motovibrators modulation



Equipment malfunction: **motovibrator bearing failure**



wise monitoring vibration sensor



wise monitoring www.wisemonitoring.com

©2013

PRIMARYSCREENER

WM100 Vibrating machinery monitoring V1.1, Apr 24 2014

debug: read 38

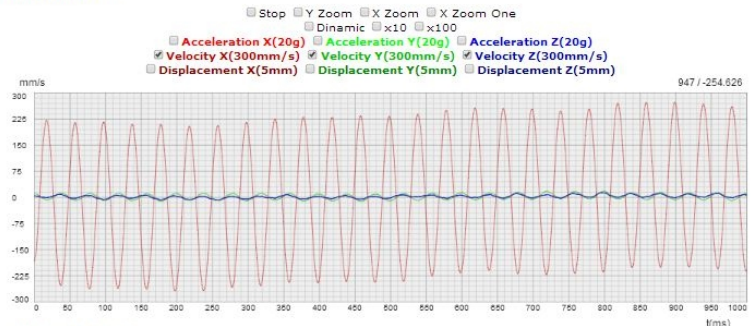
Process Variables

PT100 temperature: 30.8 °C

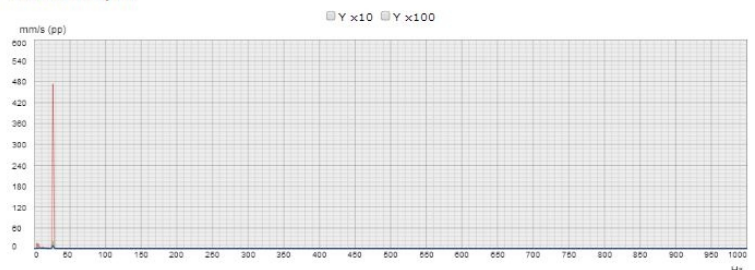
Revolutions Per Minute: 0.0 RPM

		unit	x	y	z	xyz
acceleration	RMS	g	2.7	0.1	0.1	2.7
velocity	RMS	mm/s	166.8	7.3	3.5	167.0
displacement	pp	mm	4.00	0.43	0.35	4.04

Process Waves



Process Analysis



- Range: ± 20 g
- Accuracy: 0.001 g
- Frequency range:
 - X axis 0,5-1600 Hz
 - Y axis 0,5-550 Hz
 - Z axis 0,5-1600 Hz
 - optional 20 kHz
- Pt100 range: 0-125 °C
- Material: Stainless steel AISI304
- Protection code: IP65
- Operation temperature: -40..85°C
- Power supply: Power over ethernet (POE)
- Communication: Ethernet, MODBUS TCP
- Alarms: 10 alarms
- Optional M8 6 pins connector:
 - 2 digital inputs
 - 2 pnp outputs 20mA 35VDC
 - external power supply 35VDC
- Analogical / Digital converter, DSP microprocessor and memory:
 - Signal conversion in the sensor
 - Management of sensor's I/O for tachometers, proximity switches, start/stop contacts, etc.
 - Sends warning and alarm e-mails
 - Web server in the sensor, no additional external software required to access information or alarms setup