



VIBRONET® Signalmaster 'Plug & Go' Online Monitoring



Affordable Online Monitoring with VIBI

Why online?



Online systems pay off:

- Less unplanned downtime
- Optimal planning of manpower
- Reduced spare part warehousing
- Avoidance of secondary damage
- Improved plant safety

Online systems enable:

- Reliable alarm notification
- Monitoring of inaccessible measurement locations
- Machine condition analysis by external experts (Tele-diagnosis)
- Integration of the measurement data in control systems.

First steps ...



VIBRONET® Signalmaster is the ideal introductory solution for the online monitoring of standard aggregates such as motors, pumps, fans and simple gear transmissions. Premounted in a robust switching cabinet, the system is designed for quick and easy commissioning, while being easily expandable.

... or expansion



Whether you are already using our offline systems or VIBRONET Signalmaster is your first step into Condition Monitoring, you can expand either way by using OMNITREND, the software platform which assures compatibility between all PRÜFTECHNIK Condition Monitoring tools. Think about the time, effort and cost you will save in training and implementation.

All functions at a glance



Vibration



Bearing condition



Temperature



Variable speed



Process parameters



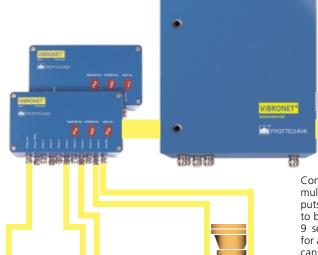
FFT spectrum



Envelope



Time signal



Ethernet, RS 232 (LAN/ WAN, Intranet, Internet)

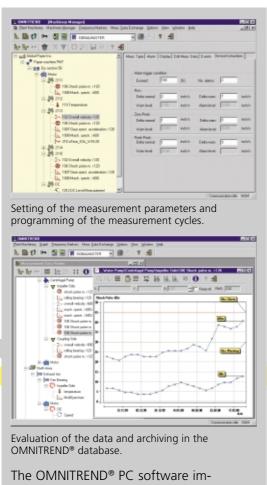
Connect up to 3 strings of 6 multiplexers to the signal inputs. Multiplexers do not need to be powered! Connect up to 9 sensors to each multiplexer for a network of maximum 162 cannels for each VIBRONET Signalmaster.

Special solutions

For special monitoring tasks (e.g. extruders, wind turbines), measurement functions can be added and individually tailored. Both special and standard versions can be integrated into any company network and accessed by several users at the same time.

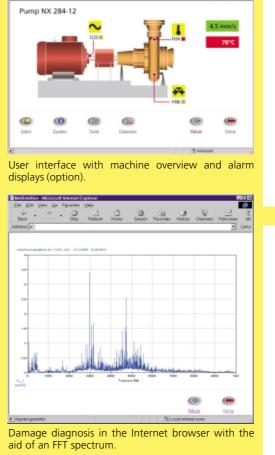
RONET® Signalmaster

Programming, evaluation and archiving in OMNITREND® PC software



The OMNITREND® PC software implements the measurement locations together with their measurement parameters and measurement cycles. This software also evaluates, documents and archives the measurement data (trend, spectrum, time signal).

Alarm notification and tele-diagnosis in any Internet browser



The condition of the system can be queried online from any PC via an Internet connection. If the condition of the machines has led to an alarm, the cause of any faults can be localized immediately by diagnostic measurements (spectrum, time signal).



Technical Data

VIBRONET® Signalmaster

Basic unit - VIB 5.902

Analog inputs

6 differential inputs (1 of them synchronous) or 12 single-ended inputs

Measurement ranges, analog input

±10 V, ±1 V, ±100 mV, ±10 mV

Dynamic range / Resolution

96 dB / 16 bit

Sampling rate, analog input

153.6 / 76.8 / 38.4 / 19.2 / 9.6 kHz SW downsampling: 4.8/ 2.4/ 1.2/ 0.6/ 0.3/ 0.15 kHz

Frequency range

48 kHz to 48 Hz divided into 11 ranges

Frequency resolution

400, 800, 1600, 3200, 6400, 12800 lines

Envelope analysis

Selectable digital input filter

Tacho inputs

2, TTL (active low), ext. multiplexer Max. counter frequency: 1000 Hz

Key phaser input

TTL (active low)

Digital inputs/outputs

4, input: TTL, output: 5 V, 5 mA

Digital outputs

4 outputs, 5 V, 5 mA

FET switching output

12 V DC, 1 A, switchable

Measurement functions

Time signal, spectrum, easy spectrum integration, envelope, shock pulse, acceleration (RMS), vibration velocity (peak, RMS)

RAM memory capacity

8 MB (optional 20 MB)

Flash memory storage capacity

16 MB (optional expandable up to 196 MB)

Ethernet interface

Quantity: 1, data rate: 10 Mbit

RS 232 interface

Quantity: 2, data rate: 38.4 kbit



System Components

VIBRONET® Signalmaster

Standard package - VIB 5.890-1

for 1 string line (connection for max. 6 multiplexers)

VIB 5.902 VIBRONET® Signalmaster basic unit

VIB 5.960-B Power supply, 12V

VIB 5.956-2 System bus with 2 connectors
VIB 5.815-1 Shock pulse module for 1 string line

VIB 5.917 Output module with 2 center relays

VIB 9.662-3 VIBRONET® Signalmaster product catalog

VIB 9.663-3 VIBRONET® Signalmaster accessory catalog

Standard package - VIB 5.890-3

for 3 string lines

(same as VIB 5.890-1 package except for VIB 5.815-3 shock pulse module for 3 string lines)

PC software

VIB 8.957 OMNITREND® for VIBRONET® Signalmaster

Hardware for field installation

- Multiplexer
- Cabling

PC requirements

Processor

min. Pentium II @ 400 MHz

RAM / Hard disk storage

Interfaces

RS232 or Ethernet TCP/IP

Software environment

WIN 98/NT/2000/XP, NN 4.73-4.79 / IE 5.5 SP2













Free CD



There is a free CD with more information about VIBRONET Signalmaster waiting for you.

Simply fill out the coupon and send it by fax to:

+49 (0)89 99 61 63 00

or via the Internet under www.signalmaster.de Company

Name

Department

Street

Zip code/Town

Visit us at www.pruftechnik.com

Printed in Germany VIB 9.697.08.02.G

VIBRONET®, VIBROTIP®. VIBSCANNER® and VIBROCORD® are registered trademarks of PRÜFTECHNIK Dieter Busch AG. No copying or reproduction of this information, in any form whatsoever, may be undertaken without express written permission of PRÜFTECHNIK AG. The information contained in this leaflet is subject to change without further notice due to the PRÜFTECHNIK policy of continuous product development. PRÜFTECHNIK products are the subject of patents granted or pending throughout the world.

© Copyright 2002 by PRÜFTECHNIK AG.



Condition Monitoring D-85730 Ismaning, Germany Phone: (+49) 89 99 61 60

(+49) 89 99 61 63 00 eMail: info@pruftechnik.com