

RELIABLE VIBRATION MONITORING SYSTEM



IDENTIFICATION



ENTER PASSWORD OR LOGIN WIRELESSLY

To ensure that your machine is always properly supervised, we have given you 3 levels of privileges: **GUEST, OPERATOR, ADMIN**. The Guest can only observe the indications. The Operator will acknowledge the warnings and alerts. The Admin can change the system configuration. Each access level is protected by a login and password. You can log in by traditionally data typing or by wirelessly applying RFID transponder.

REMOTE ACCESS



FROM ALL AROUND THE WORLD!

The convenient mobile application available for **iOS** and **ANDROID** allows you to view and operate the system from anywhere in the World, via the Internet.

RELY ON EXCELLENCE



AVOID COSTLY BREAKDOWNS AND FEEL COMFORTABLE

VIMS - VS4 is number one in its category. We have engaged in extraordinary equipment to guarantee the best results in machine monitoring and diagnostics. The VIMS-VS4 utilizes such advanced technology, rich functionality accurate reporting and quick resolve that it has set a new level in assessing the status of rotary machines.

POWER SUPPLY & INSTALLATION



NOTHING EASIER!

Install the compact system at the machine or in the automation room. Delivery includes a central unit with cable glands installed and sensors with all necessary cables and studs. The robust IP66 metal enclosure protects the system against demanding industrial conditions and electromagnetic interference. Wide range of voltage power 100..240 VAC or 120..250 VDC is designed for easy installation. Alarm relay outputs directly control the optical and / or acoustic signaller, which displays any interruption in the system to be addressed.



SIMPLE OPERATION



JUST TOUCH!

You can select the operator functions on the large, color touch panel using the clear icons. We configure the system to provide a clear diagram of your machine for easy reference. Color indicators shows where the warning and alarm levels are exceeded. Self-diagnosis of the system will reveal damage to the cable or sensor with the indicator flashing on the screen.

DIAGNOSTICS



FOR EVERYONE!

The VIMS VS-4 interprets the data for you. Unique algorithms detect failures of rotary machines with fixed and variable RPMs. On display clear bar graphs will show you then:

- ✓ unbalanced rotor
- ✓ misalignment of the machine assembly
- ✓ loose and structural cracks
- ✓ problems with foundation
- ✓ the condition of the rolling bearings and the lubrication
- ✓ cavitation in pumps
- ✓ many other malfunctions

DIAGNOSTIC SOFTWARE



DISPLAYED DATA IS NOT ENOUGH?

Are you advanced in vibration diagnostics? That's great! **VIMS VS-4** works with professional diagnostic software. You can save and export sampled at high frequency data for in-depth analysis.

PLUG & PREDICT™ TECHNOLOGY



CONNECT THE DEVICE AND PREDICT FAILURES IMMEDIATELY

Plug & Predict™ technology engages the experience gained through years of multi-machine diagnostics and our entire engineering expertise in predicting your machine's failure. **Plug & Predict™** technology maximizes benefits with minimum user involvement, extremely simple installation and low cost of equipment.

STANDARD ISO20816 (ISO10816)



TYPICAL MACHINES

Choose the power of the machine's drive, foundation type and protect the machine in accordance with **ISO20816 (ISO10816)**. Appropriate vibration values, warnings and alarm levels will be used. Standard ISO is a good way to protect typical machines with typical kinematics.

ALARM LEVELS ASSISTANT



HOW ABOUT MY UNTYPICAL MACHINE?

Install **VIMS-VS4** and leave for the reference period. Basing on the recorded data, the **ASSISTANT** will advise you of the optimal alarm levels up to the current wear status of the machine. You can accept or deny prompts and customize the triggering of the warning and alarm at any level.

COMPATIBILITY



CONNECT TO THE AUTOMATION SYSTEM IN YOUR FACTORY

VIMS-V4 will work stand alone or integrated with Your existing PLC / SCADA / DCS / BMS system. Warning and alarm contacts, Ethernet and MODBUS communication are included. You can use optional 4..20 mA analogue outputs or RS485, Profibus, Profinet or CAN digital communication for connect to your system: Siemens, Rockwell Automation, ABB, Mitsubishi, Schneider, B & R and others.

LIST OF CHANNELS – TYPICAL CONFIGURATION

VIBRATION	2	3	4	5	6	7	8	12	16	24	Up to 640 channels
VIBRATION & TEMP.	2 + 2	3 + 3	4 + 4	5 + 5	6 + 6	7 + 7	8 + 8	12 + 12	16 + 16	24 + 24	

TECHNICAL DATA	STANDARD FEATURES INCLUDED	ADDITIONAL OPTIONS AVAILABLE
VIBRATION	2 wire accelerometers	3 wire accelerometers
◦ INPUT TYPE	IEPE (ICP)	voltage
◦ SENSITIVITY	100 mV/g	10 mV/g ... 1000 mV/g
◦ PROCESSING	Simultaneously all channels	-
TEMPERATURE	Inputs for sensors with output voltage output	Inputs for sensors with current output or RTD
◦ INPUT TYPE	0..1 V	0..10 V; 4..20 mA; Pt100; Pt1000 ¹⁾
SPEEDING PUT	Impulse inputs PNP/NPN	-
PROCESS VALUES	Modbus RTU RS 485	0..10 V, 4..20 mA, binary, other ¹⁾
DISPLAY	7" colour touchscreen	Without display /10" colour touchscreen ¹⁾ / 12" colour touchscreen ¹⁾
PLUG & PREDICT™ TECHNOLOGY	Ready to predict system preconfigured to the machine	-
ISO STANDARD	ISO20816 (ISO10816)	-
ALARM LEVELS ASSISTANT	Based on the reference period	-
ALARM TRIGGER BY THE SENSOR FAULT	yes/no - configurable	-
REMOTE ACCESS	Cable connection, Ethernet TCP/IP	wireless ²⁾
◦ TECHNOLOGY	VNC server	-
WARNING, ALARM OUTPUTS	Relays N. O.	Relays N. C.
◦ RELAYS	5A/30VDC; 5A/230 VAC	-
◦ WARNING LEVEL	Configurable from 0 to 100% of range	-
◦ ALARM LEVEL	Configurable from 0 to 100% of range	-
◦ WARNING DELAY	Configurable from 0 to 100 s by 1 s	-
◦ ALARM DELAY	Configurable from 0 to 100 s by 1 s	-
LOGIN METHOD	Login+Password	RFID transponder ¹⁾
ANALOG OUTPUT	None	4..20 mA, 0..10 V ¹⁾
◦ PROPORTIONAL TO	Vrms ISO 10816 standard	Selected value (unbalance, bearing cond., etc.) ¹⁾
COMMUNICATION	Ethernet, Modbus RTU RS485	Profibus, Profinet or CAN, others
POWER SUPPLY	100...240 V AC / 120...250 V DC	12 VDC, 24 VDC, others ¹⁾
IP RATING	IP66	-
DIMENSIONS (W. X H. X D.)	250 mm x 310 mm x 125 mm ³⁾	-
WEIGHT	7 kg	
TEMPERATURE	0..40 °C.	-25..50 °C
VIBRATION ANALYSYS	Recording „live" signal to the .csv file	Diagnostic software minimum DDS2016 ¹⁾
ACCELEROMETERS	Top entry with temperature output	Side entry - lowprofile ¹⁾
◦ SENSITIVITY (VIBRATION)	100 mV/g	10 mV/g ... 500 mV/g /1000 mV/g ¹⁾
◦ SENSITIVITY (TEMPERATURE)	10 mV/ °C; 0..1 V = 0..100 °C	RTD Pt100
◦ FREQUENCY BAND	0,8 Hz...15 kHz (+/- 3 dB)	0,2 Hz...15 kHz; 0,8 Hz ... 20 kHz ¹⁾
◦ TEMPERATURE	-25 ... + 140 °C	-25...250 °C ¹⁾
◦ MOUNTING	M8x 1,25 male	M6, M10, M12, ¼-28 UNF, glued, others
◦ CONNECTOR	M12 4 pin	3 pin MS, integrated cable
◦ PROTECTION CATEGORY IP	IP67	IP65, IP68 – with integrated cable
◦ CABLE	M12 4 pin with screened, integrated cable, PUR 10 m length	M12 4 pin with screened, integrated cable PUR, 5 m; 10m, 15m, 20 m, etc. / other cable length; other cable types ¹⁾
ROTATIONAL SPEED SENSOR	Proximity, M12, with mounting	others, 0..10V, 4..20 mA.
CABLE FOR ROTATIONAL SPEED SENSOR	M12 4 pin with integrated cable, PUR 10 m length	other cable length; other cable types ¹⁾

1) Additional charge 2) Additional fees for data transmissions may occur 3) Up to 8 channels, more channels in larger enclosure.