Compact, simple, poweful, and easy to start

Continuous vibration and temperature monitoring system
Vibrations: Acceleration and Velocity
Displacement and Envelope
Outputs 4-20mA of variables controlled
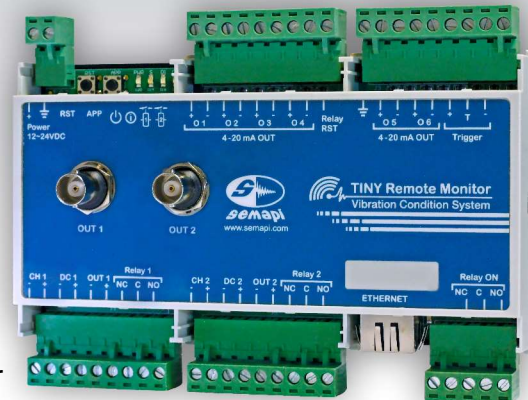ModBus/TCP protocol for SCADA systems
It is compatible with diagnostic software of DSP
Machinery Control
The Relays alarms can be configurable by Wi-Fi
Bluetooth readings with the Pocket VibPro collector
BNC outputs for readings with data collectors

El TINY Remote Monitor (TRM) is two-channel equipment for condition controlling of machines by vibrations and temperature.

The TINY Remote Monitor (TRM) is a control device 24/7 who delivers the signals on 4-20mA format to be reading by any PLC system or by an own system signal management.

The measurements from the TINY Remote Monitor (TRM) performs on its two chanels are: Acceleration, Velocity, Displacement, ad Envelope with conventional sensors and also temperature if it used dual sensors.

Each channel from the TINY Remote Monitor (TRM) has a BNC connection that allows you to capture the analog signal from the sensor to be measured and analyzed by a conventional data collector without interfering with the permanent monitoring of the signals.

The TINY Remote Monitor (TRM) has a alarm system that activated two relays configuale by software, and an electric security relay. Also, you can do a track with the DSP MC software with all the diagnostic tools. On the other hand, you can do a track by PLC or by SCADA system.

The measurements that are programmed by points can be scalar or spectral, the variables are configurable on each point of measure and the individual characteristic of each measure are extremely flexible.

The measurement foutiners of the points of the configured machines can be programmed in automatic routines of monitoring with different periods between measrement and measrement recording.

Application
Perfecf for critical and semi-critical equipment.
It allows to detection variantions on the equipment behavior to avoid a fault.
Early detection of lubricating film failure significantly increases unit life.
It is very useful for machines that are difficult to access of confined.
The TRM is a perfect system to control typical failures in industrial rotating like bearing problems, misalignment, lack of adjustments in any type of rotating, cavitation in pumps, imbalance in fans and cooling towers, and gear problems in gearboxes reducer, etc.

Programmation and configuration
With the Wi-Fi access the TRM allows and quick and simple configuration of the variables to measure, programming of the periodicity of the measurements, setting alarms and trip of relays, it can access too by a notebook, tablet of Smatphone.
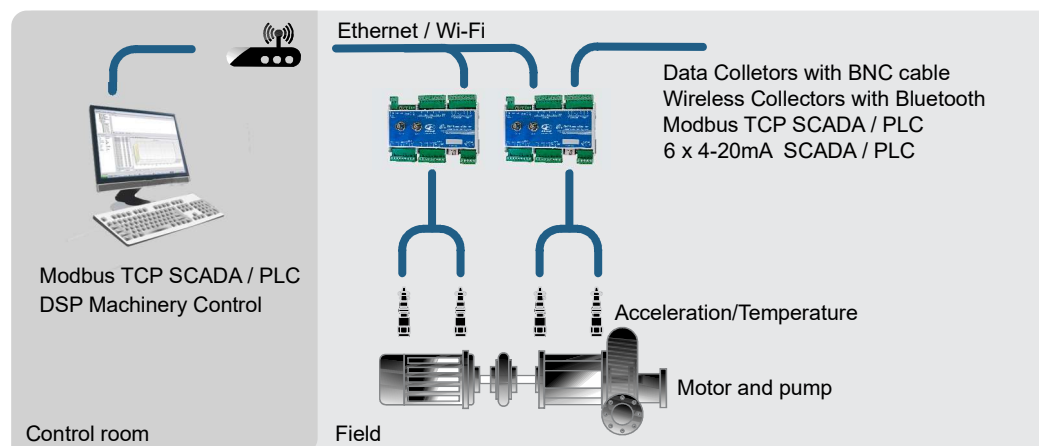Dynamic signal output.
With a BNC connector for each channel, the TRM allows access to the dynamic signal from the sensor through any conventional vibration meter of analyzer without affecting the continuous monitoring process of the unit controlled.
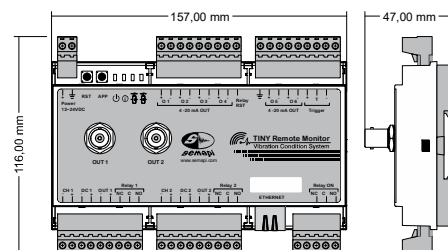If it is a used the Pocket VibPro it can be captured the accelerometer output by Bluetooth.

System Components:

PC with Windows operating system (not included)
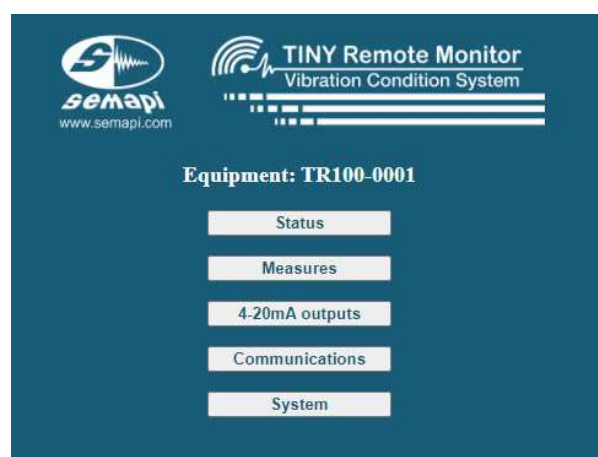TINY Remote monitor Hardware
Vibration sensors ICP type

Ethernet / Wi-Fi

Data Colletors with BNC cable
Wireless Collectors with Bluetooth
Modbus TCP SCADA / PLC
6 x 4-20mA SCADA / PLC

Modbus TCP SCADA / PLC
DSP Machinery Control

Acceleration/Temperature

Motor and pump

Control room

Field

Dimensions:

157,00 mm   47,00 mm
116,00 mm

On-site configuration by dedicated Wi-Fi

Once the TRM module is installed, you will be able to configure and view the measurements carried out and see them online via your Smartphone or Tablet and if it is necessary you can change the inputs and outputs configuration through a series of agile screens that will allow you to have a total and fast control of the condition of vibration and temperature of the monitored machine

TINY Remote Monitor
Vibration Condition System
www.semapi.com

Equipment: TR100-0001

- Status
- Measures
- 4-20mA outputs
- Communications
- System

Status: 14/12/2020 09:27:00

Measures:	ENABLED	TO DISABLE
Load full configuration from file:		OK
Relay 1:	DISABLED	Set Reset
Relay 2:	DISABLED	Set Reset
RPM:	0	

Update

Return

Latest Results:

Measure	RMS Value	0P Value	PP Value	Date/Time	Status
[1] - Acceleration (RMS-1024-A-5000-CH1)	0.061 G	0.192 G	0.317 G	14/12/2020 09:26:50	Normal
[2] - Velocity (RMS-1024-V-500-CH1)	1.543 mm/s	2.676 mm/s	5.240 mm/s	14/12/2020 09:26:52	Normal

Control and analysis system DSP Machinery Control
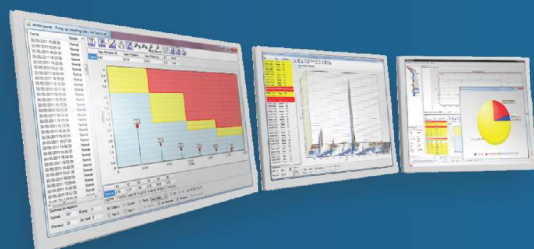
The DSP Machinery Control software is designed for organizing and visualization measurements ins a cimple way determining the status of each machine.
The DSP Machinery Control has plenty of diagnostic tools that ensure the early detection of electric and mechanical failures.
The entire line of field meters and analyzers are fully compatible with this software allowing in a single database to manage all the measurements.

Compatible equipment with:

TÜVRheinland
CERTIFIED

Management
System
ISO 9001:2015

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