

Online Vibration Analysis System

The IoVibe 4.3 3D HF/T Online Vibration Sensor is a product developed exclusively by SEMEQ to monitor the condition of your machinery assets more accurately and safely.

Now you can monitor your most difficult equipment and have the machine asset data being acquired hourly.



- Sensitivity: $\pm 70G$
- Axis Ranges: X:3Hz - 10 kHz,
Y:1.6kh, Z:550hz
- Route interval: 1 hour
- Battery: 2 alkaline AA batteries
- Measures: Acceleration and Velocity
- Units: g – m/s²; mm/s
- Spectrum: CPB, FFT, Envelope, Timewave,
Overall PK-PK and RMS
- Battery Life(2xAA): up to 2 years
- Mobile interface
- Protection: Nema 6P/IP67
- Temperature Range: -32°F ~ 257°F

The Gateway

The IoVibe Gateway receives and stores data that is transmitted wirelessly. From here, all data traffic takes place on our proprietary SEMEQ network with BLE (Bluetooth Low Energy) and Cellular or Wi-Fi communication.

All data is then sent to SEMEQ via the cloud.



- Internet connection: 3G / 4G+ or integrated network cable via OPC or Modbus
- Protection: IP 67/Nema 6
- Model: SMQ CS-797
- Power: 127-220V/3A
- Communication: Wi-Fi, 54 Mbts/sec.
- Direct sighting range: 150 meters (typical)

Interconnection of the Online Vibration Analysis System with IoT

The online vibration analysis system is easily integrated with other offline predictive techniques, CLPs and ERPs in compliance with industry 4.0 standards.

The data is processed in the SEMEQ corporate portal, reviewed and analyzed with the predictive analytics by industry certified vibration analysts who generate detailed reports. These reports are made available in our corporate portal and can be accessed via web or mobile interface. Customers with an ERP interface can have the reports integrated into their system to generate notes or work orders automatically.



**SEMEQ
Network of
Sensors**

**Big Data
Artificial Intelligence
Business Intelligence**



**Network of
Existing
Sensors**

- CLP
- Other Sensors
- OPC Server



**Management
platform**
It can view and
analyze all alarms
and data . .

SEMEQ can analyze
vibration data
remotely and
generate reports on
the MySemeq portal.



MySemeq Portal
Integrates all
predictive techniques
(online and offline)
into a single manager
interface.



This integration
allows you to open
ERP service request
and work orders
automatically via the
web.

- Vibration Analysis (Offline and Online)
- Thermography • Laser Alignment
- Motor Circuit Analysis • Lubricants Analysis
- Lubrication • Ultrasound

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SEMEQ

Intelligence in Asset Health