

## TPI Connected CBM

After people, information is a company's greatest asset. TPI's Connected CBM products help grow that information by providing the essential data to leverage its true value. Our continually expanding range of Connected products already includes two portable vibration analysers, an Infra-Red & contact thermometer, and now the 9034/38 Smart Vibration Monitor online vibration analysers.

Whether the readings are collected by a maintenance technician using the simple to operate 9080 VibMeter, or by a vibration analyst on a 9041 Ultra II, or 24/7 on a 9034/38 Smart Vibration Monitor, all of the data will be available on the same analysis and reporting platform. The only question is which platform to choose – local PC or remote Cloud? Or Both! – With TPI's solution the PC based C-Trend II and the Cloud based DataDecypher can share and synchronise all data for a truly connected solution.



## Cloud Analysis Software

Analyse / Trend / Alarm / Report on ALL connected products

Data Decypher is a powerful easy to use asset management and fault diagnosis software. Data Decypher standard software gives you greater ease of use and flexibility. Windows 8™ compatible, store analyse and report on all your vibration parameters in one place. Perform and track compliance rates of on-site inspections which includes forms and pre-built safety checklists.

- Upload your own checklists or utilize existing pre-built checklists based on OSHA safety regulations.
- Reduce and eliminate paper forms.
- Conduct inspections on multiple mobile devices including iPhone, Android, and more.
- Improve safety and gather real time inspection analytics.

### 9041 Ultra II

High Performance Vibration Analyser & Two Plane Balancing

1. Detect out of balance, misalignment, looseness and bearing defects.
2. Detects faults by identifying the cause preventing breakdowns from happening.
3. Trending and bearing analysis with C-Trend II software.



### Vib Meter 9080

High Performance / Low Cost Vibration Analyser

1. Detect out of balance, misalignment, looseness and bearing defects.
2. Detects faults by identifying the cause, preventing breakdowns from happening.



### 377BT

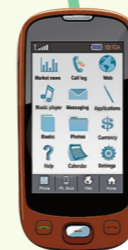
IR Temp with Bluetooth

- Non-Contact IR
- Adjustable Emissivity
- Laser Sighting
- Contact temperature with optional "K" type thermocouple probes
- Bluetooth connectivity to data collectors



### DataDecypher

Inspections (Smartphone / Rugged PDA)



### PC Analysis Software

Analyse / Trend / Alarm / Report on ALL connected products

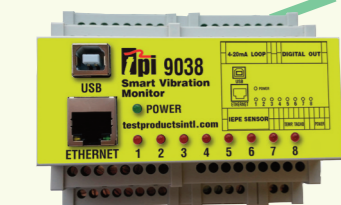
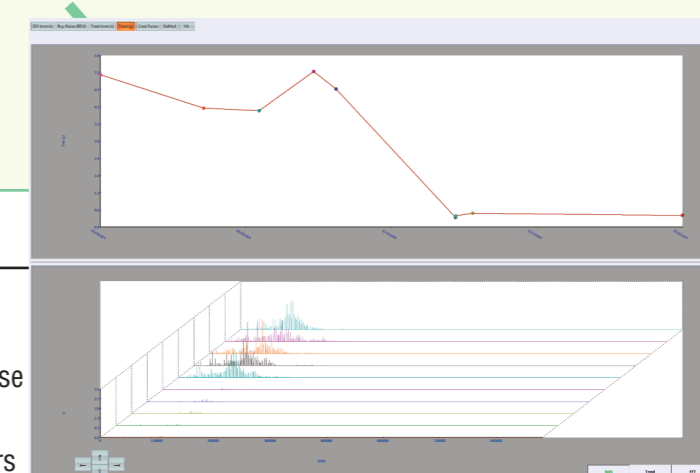
C-Trend II powerful easy to use asset management and fault diagnosis software

C-Trend II standard software gives you greater ease of use and flexibility. Windows 8™ compatible

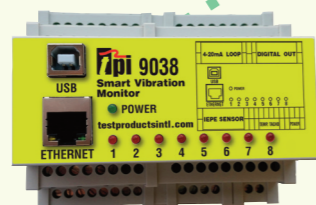
Store, analyse and report on all your vibration parameters in one place.

Perform and track compliance rates of on-site inspections which includes forms and pre-built safety checklists.

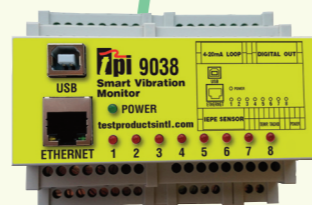
- Upload your own checklists or utilize existing pre-built checklists based on OSHA safety regulations.
- Reduce and eliminate paper forms.
- Conduct inspections on multiple mobile devices including iPhone, Android, and more.
- Improve safety and gather real time inspection analytics.



**Smart Vibration Monitor**  
4/8 Accelerometers +  
1 Tacho + Temperature  
Permanent Installation



**Smart Vibration Monitor**  
4/8 Accelerometers +  
1 Tacho + Temperature  
Permanent Installation



**Smart Vibration Monitor**  
4/8 Accelerometers +  
1 Tacho + Temperature  
Permanent Installation

**Knowledge may be power, but knowledge needs data – TPI gives you the data!**



# Online/Fixed Vibration Monitoring

|                                   | Smart Vibration Monitor 9034                      | Smart Vibration Monitor 9038 |
|-----------------------------------|---|------------------------------|
| <b>Measurement</b>                |   |                              |
| IEPE Accelerometer Input Channels | 4   | 8                            |
| Accelerometer Sampling Frequency  | 2Hz - 25.6kHz                                     |                              |
| 4-20mA Output Channels            | 4   | 8                            |
| 24VDC Digital Outputs             | 4   | 8                            |
| 24VDC Dig. Output Current Max     | 100mA   |                              |
| Digital Output Alarm              | Acceleration or Velocity (Channel Selectable)     |                              |
| Tachometer Input                  | 1 (0V to any voltage upto +24VDC)                 |                              |
| Frequency Dependent Alarms        | Yes (using Tachometer)                            |                              |
| Temperature Input                 | 1 (Typically 10mV/°C)                             |                              |
| PC Connection                     | USB   |                              |
| Internet/Cloud Connection         | Ethernet  |                              |
| <b>PC Software</b>                |   |                              |
| Vibration Alarms                  | 4   | Vibration 8                  |
| Temperature Alarm                 | 1   | Temperature 1                |
| Alarm Choice                      | Acceleration AND/OR Velocity (channel selectable) |                              |
| FFT                               | Up to 51,200 lines                                |                              |
| Time Waveform                     | Yes   |                              |
| <b>Electrical</b>                 |   |                              |
| Supply Voltage                    | USB or 24VDC                                      |                              |
| Supply Current                    | 500mA   |                              |
| <b>Mechanical</b>                 |   |                              |
| Environmental                     | IP50  |                              |
| Operating Temperature °C          | 0-55°C (32-151°F)                                 |                              |
| Storage Temperature °C            | 0-55°C (32-151°F)                                 |                              |
| Mounting                          | DIN Rail  |                              |
| Part Number                       | 9034  | 9038                         |

## Test Products International World Wide Locations

**Test Products International USA**  
 9615 SW Allen Boulevard  
 Beaverton, OR 97005  
 Email:  
 tech@tpi-thevalueleader.com

**Test Products International Canada**  
 342 Bronte St. South  
 Unit #9 Milton, Ontario L9T 5B7  
 Email:  
 info@tpicanada.com

**Test Products International Europe Ltd.**  
 Longley House  
 International Drive  
 Crawley  
 RH10 6AQ  
 Email:  
 sales@tpieurope.com

**TPI-AsiaPacific Co., Ltd.**  
 58 Gaetbeol-ro, Yeonsu-gu,  
 Incheon, Korea  
 Email:  
 sales@tpiasiapacific.com

# Test the TPI Advantage

[www.testproductsintl.com](http://www.testproductsintl.com)



# Smart Vibration Monitor 9034 & 9038 Online/Fixed Vibration Monitoring

A4 Smart Vibration Monitor 9034 & 9038 TAW 0415

### Features:

- 4 accelerometer channel & 8 accelerometer channel versions
- 24VDC (relay drive) switched output for each channel (warning/critical, g or velocity)
- 4 to 20mA output for each channel (g or velocity)
- Temperature input
- Tacho Input
- USB for connection to Smart Vibration Monitor PC software
- Ethernet socket for connection to Online Vibration analysis software

### Advantages:

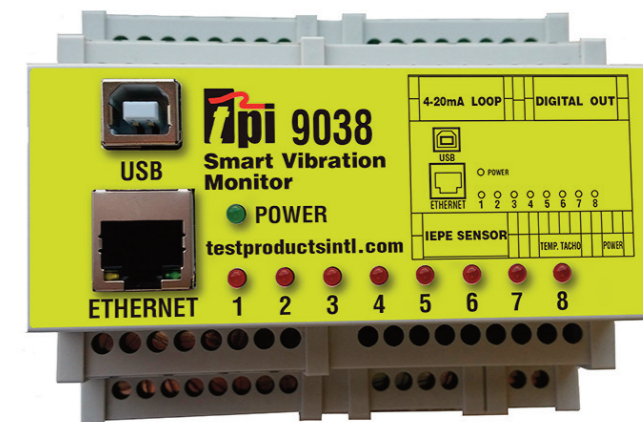
- Extremely cost effective – lowest cost/channel industrial vibration monitor/analyser
- Very easy to set up using Smart Vibration Monitor PC software
- 24/7 monitoring of critical plant operations

### Benefits:

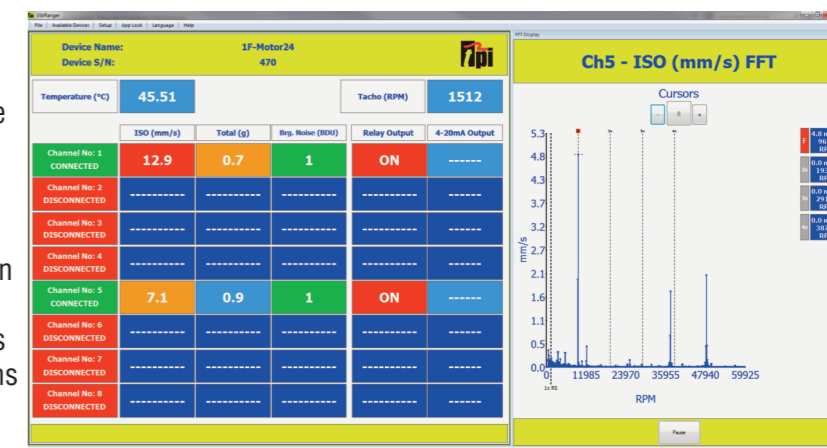
Single low-cost unit monitors plant with local alarms, connects to high functionality PC analysis software AND connects to cloud-based monitoring and analysis software.

**The Smart Vibration Monitor 9034 and Smart Vibration Monitor 9038** are the new generation of low price-high performance installed vibration analysers from TPI. With up to 8 accelerometer inputs, 8 digital outputs, 8 analogue outputs, temperature and tacho inputs as well as USB and Ethernet connectivity the Smart Vibration Monitor 9034 and Smart Vibration Monitor 9038 modules offer unrivalled price/per channel performance. The analysers can be used in several different ways:

- **Standalone Operation** – Connect up to 8 accelerometers and up to 8 relays and instantaneously monitor and alarm on-key vibration points. Using the included Smart Vibration Monitor PC software the alarms can each independently be set to trigger on/either a velocity level or a g level. If a tacho is connected, a speed range can be set so as not to activate during machine start-up or shut-down.
- **Legacy Systems Operation** – for each connected accelerometer, the Smart Vibration Monitor units can also output levels of vibration (g or velocity) as 4 to 20mA signals for connection to existing monitoring systems such as PLCs, etc.



- **PC Operation** – If a laptop/PC is connected via a USB cable, up to 64 modules can be monitored and the vibration levels displayed on screen. With the PC connected more detailed vibration analysis can be carried out with up to 51,200 line FFT analysis.
- **Online Cloud Operation** – by subscribing to TPI's Data Decypher cloud-based service all installed modules can be monitored and analysed from a single web-based interface. Just log on via your standard internet browser and all modules can be viewed and configured. Furthermore, detailed reporting is just a click away, as is automatic alarm notification via email.



The Smart Vibration Monitor 9034 and Smart Vibration Monitor 9038 modules are supplied to work in any, or all, modes right out of the box so it truly is a system that will grow with your requirements.

The Smart Vibration Monitor modules are perfect for extremely cost-effective monitoring of critical plants operations and when used in conjunction with the TPI 9070, 9080 and 9041, vibration analysers provide the complete CBM solution.

# Test Products International, Inc

[www.testproductsintl.com](http://www.testproductsintl.com)