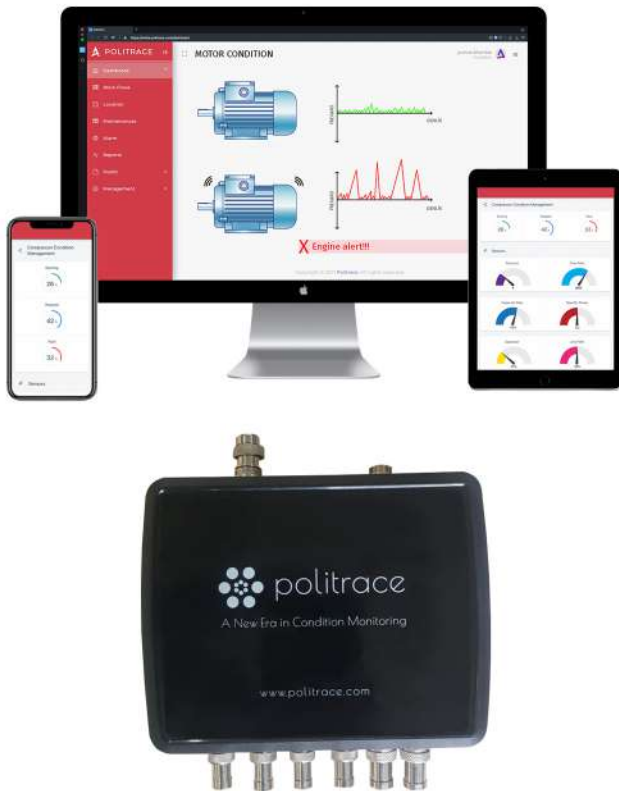


WHAT IS POLITRACE?

Politrace is a scalable, plug-and-play, end-to-end, industrial oriented, AI-based machine equipment monitoring system.



USAGES

- ▶ Predictive maintenance
- ▶ Anomaly detection
- ▶ Conditional monitoring
- ▶ Asset management
- ▶ Maintenance management
- ▶ Energy optimization
- ▶ Real-time reporting
- ▶ Data visualization
- ▶ Plant & employee safety
- ▶ Energy & process optimization

ADVANTAGES

- ▶ Optimize performance by instantly visualizing your process data.
- ▶ Track operator errors, prevent misuse.
- ▶ Detect problems before happening and prepare replacement parts.
- ▶ Prevent stops/shutdowns, keep your production line running continuously.
- ▶ Get continuous support from machine and line manufacturer/vendor.
- ▶ Do periodic maintenance on time.
- ▶ Organize technical service teams to perform preventive maintenance activities on time.

POLITRACE HOW IT WORKS?

PHASES

1 Sensors

- ▶ Temperature
- ▶ Leak detection
- ▶ Pressure
- ▶ Humidity
- ▶ Vibration

2 Monitoring

The parameters are sent to the Politrace server, where the expert system, predicts faults

3 Software

For monitoring the status of the assets, reception fault messages and displaying parameters monitored and characteristic of the asset.

4 App

Politrace mobile or web app to configure the sensor, the communications network and receive alarm faults messages.

TECHNICAL SPECIFICATIONS

Vibration measurement

Mounted base resonance:	4.5 kHz
Nominal measuring range:	0 to 46 mm/sec
Frequency range:	10 Hz to 4 kHz
Accuracy:	±10% at 25°C
Sampling frequency:	20 kHz
Record length:	8192 points
Sample duration:	0,4 s

Communication

Interface:	RS-485
Serial baud rates:	9,6, 19,2, 38,4 k
Data format:	8 data bits
Protocol:	Modbus RTU

Wireless communication

Radio standart:	802.11 b/g/n
Network standart:	Wi-Fi b/g/n
Frequency:	2,4GHZ - 2,5GHZ
Data rate:	150 Mb/s
Out rate:	20 dbm
Range (nominal):	>20

Temperature sensor

Measuring range:	-40°C to +105°C°
Resolution:	1°C
Accuracy:	±3°C

Operating the sensor at higher voltages can induce internal heating that can reduce the accuracy

Digital sensor

Sample duration:	3 s
Input number:	4 (16 Bit)

Analog pressure sensor

Supply voltage:	10-24 VdC
Rated presure range:	0.0 to - 101 kPA
Response time:	2.5 mS - 1000 mS
Accuracy:	±10% at 60°C
Input number:	4 (16 Bit)

Environmental

Temperature:	-40°C to 60°C
Supply voltage:	24VdC