

Technical Specification

e-Sensor

HW Specification

N° of Axis	3
Frequency Range	0 to 1000 Hz [Time] 0 to 2000 Hz [Frequency]
Dynamic Range	110 dB
Measurement Range	20 g (10-40 g)
Protection Grade	IP67
Temperature Range	-10 to 100 °C
Communication	2 Wire RS485

Dimension

W Connector [mm]	40x25x25
W/O Connector [mm]	40x25x10

Signal

Output	<ul style="list-style-type: none">• Unfiltered Acceleration Signals;• Vector Acceleration Peak Detection;• RMS Velocity;• RMS Acceleration;• Peak-Peak displacement;• FFT.
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e-Interface

HW Specification

Processor	ARM926JE 454MHz
RAM	128MB
Flash	128MB
Screen	TFT 480 x 272 pixel 262k colors
Ethernet	10Mbit/s - 100Mbit/s
Micro-USB	Host 2.0
Micro SD	64 GB

Connection Available

2 Analogical Configurable Inputs	4-20mA, 0-20mA, 0-10 V, PT100
4 Analogical Configurable Outputs	4-20 mA, 0-10 V,PWM
2 Digital Inputs	User Configurable



CONTACT US

Our technicians are available. Do not hesitate to contact us at the references below.
You are welcome

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SEQUOIA IT

e-Sensor System CM

YOUR ASSET IS OUR
RESPONSIBILITY


SMART SOLUTION FOR DYNAMIC MONITORING

MAIN FEATURES

-  GLOBAL PARAMETER CONTROL
-  REMOTE DATA RECORD ACCESS
-  IMPROVE PRODUCTION
-  COLLISION CONTROL
-  VPN REMOTE ACCESS
-  INDUSTRY 4.0
-  DAISY CHAIN CONNECTION

e-Sensor System CM

E-Sensor System is composed to sensor and Interface.

- **The sensor** is a Digital Tri-axial MEMS Sensor with integrated ARM microprocessor, Modbus communication protocol on RS485 Bus, suitable for collision and Shock Detection, RMS evaluation in conformity with ISO 10816/20816 and other several parameters.
- **The Interface** is a color PLC - I/O - HMI Touch Screen Interface. Based on an ARM9 architecture, the interface is PLC with integrated touch screen Human- Machine-Interface, operating as Modbus Master/Slave in both TCP/RTU protocol, with several digital and analogical I/O ports and possibility of remote control and data communication.

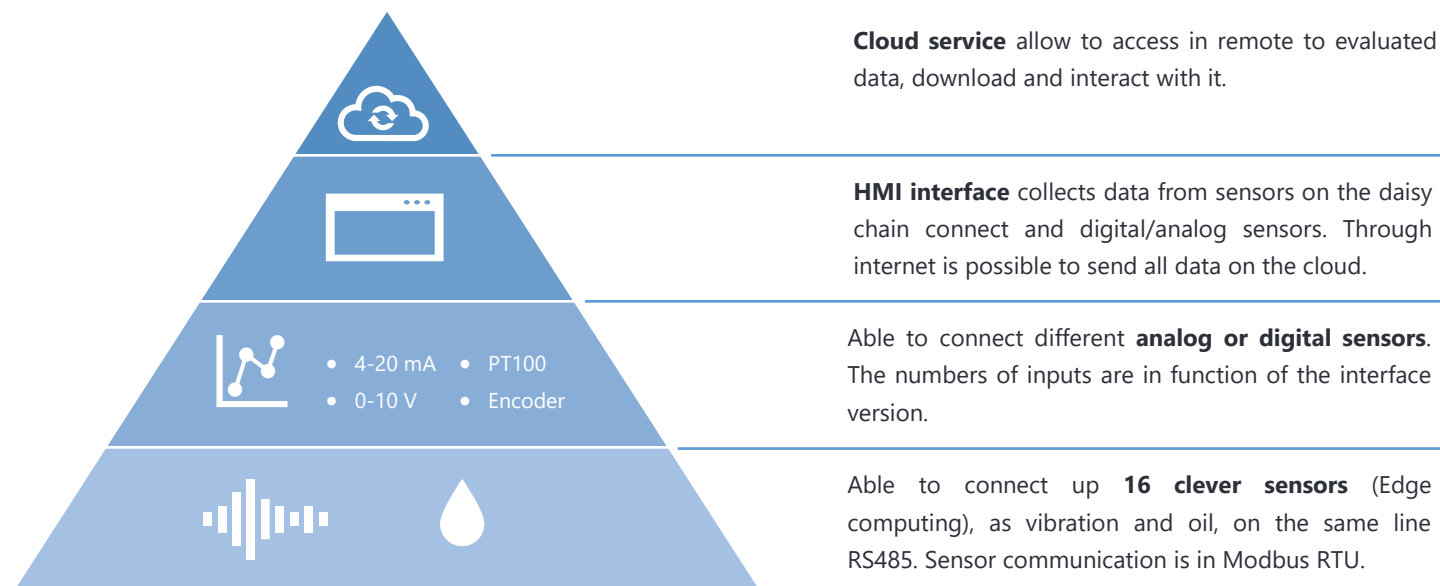
CONDITION MONITORING



- Increase process quality;
- Remote Health Asset Control;
- Cloud and Internal Data Collect;
- Remote Assistance;
- **Daisy Chain** Connection;
- Custom Application;



System Structure



Reference Market

Thanks to its great versatility, the E-Sensor System is suitable for multiple markets. It is able to adapt its hardware and software structure according to the application. Combining dynamic data acquisition and static data. In addition, it will be possible to have the data available through cloud service. So you can keep your assets under control at all times.

- **MACHINE TOOLS;**
- **PLANTS MONITORING;**
- **HYDROELECTRIC PLANT;**
- **OIL AND GAS;**
- **AEROSPACE INDUSTRIES;**
- **SPECIAL TRANSPORT;**
- **ELECTRIC MOTORS;**
- **PUMPS;**
- **COMPRESSOR;**
- **CRANE MONITORING;**
- **FAN**
- **MINING**

WHY CHOOSE US

Because we've been in the world of vibration control from years. We help our customers to get the most out of their machines. Here you will find a 360 degree service. We design, develop and manufacture our sensors using the best products on the market. In addition, thanks to our technicians in the field, we are able to offer ad hoc consulting services for each customer.

INVESTMENT PLAN

With a small investment you could get a huge advantage. Most of our customers **have a ROI (Return on Investment) lower than the year.**

MAINTENANCE

Thanks to our system it will be possible to define a predictive maintenance strategy. Avoiding downtime. This will increase profits.

SAFETY MEASURE

Thanks to the robustness of the system and the alarms it produces in case of failure or unplanned process is a necessary tool to ensure the safety of operators. Reducing damage to the machine on which it is installed.

PROJECT WORK

We don't just offer a product. We offer specialized consulting where our goal is to improve the customer's production and the quality of the final product. Our products are just the tool to do this.