VaRoM
Valve Rotation Monitoring

FACT SHEET : 20220101.001

FACTS AT A GLANCE

TYPE OF ENERGY SOURCE
Vibration Harvester

INSTALLED SENSORS
Temperature, Accelerometer, Gyroscope

DATA TRANSMISSION
Wi-Fi / BLE Bluetooth Low Energy

WEIGHT
215 grams

DIMENSIONS
Ø=82.00mm ø=25.00mm h=20.80mm

ENCLOSURE
ATEX IP67

CUSTOMIZABLE
Yes, for all Engines

For more information
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Valve Rotation Monitoring

A Preventive, Predictive and Superior Technological Approach

VaRoM will make a great contribution to the digitalization of the engine control and operating system by providing; Valve Rotation Speed (**RPM**), **Temperature** information to us from the valves, which are one of the most challenging parts to reach of the most critical moving parts of the engine.

MAIN OBJECTIVE

Our main purpose is to be able to succeed receiving and monitoring data from each valves.
+ rotation speeds
+ temperatures
via Wireless & Batteryless Sensing Node with Energy Harvesting System and transferring all data via Wi-Fi or BLE to the Main Control Panel.

So that; to establish preventive, informative and protective early warning system and try to minimize the Valve Failure Problem encountered in diesel engines.

BEHAVIOUR

Traditional Valve rotation speed measurements are made with visual control method which is not a reasonable, reliable and safe method.
VaRoM will monitor the rotation speeds and temperature values of the valves in a continuous, reliable and safe manner.
In this way, it is to minimize the possibility of malfunction with a preventive, predictive and superior technological approach to the valve failure problem, which causes large work and production loss, very high repair, spare parts and labour costs, which are frequently seen in diesel machine.

The VaRoM system is installed over the rotator of the valve by opening 3 x 6mm in 32/40 engine holes inner and available side of the rotators where the ball bearings and their motion will not be affected.

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