

MOCOM is an integrated system designed for Motor Condition Monitoring, which provides various information involving electrical (power quality) and physical (vibration and temperature) properties, to discover the existence of potential failure due to wearing or bearing problems and etc. Environmental dust and lack of lubrication are common issues that could lead to motor faults. With the aid of MOCOM, the situation could be effectively prevented.

MOCOM-M

MOCOM-M monitors the electrical aspects, and complies with IEC 62053-21 and 62053-22, which could accurately measure the power system of rotating machine, such as 3-phase voltage and current, active,

reactive and apparent power, power factor, total harmonic distortion and harmonics analysis. The advanced analyzing software can quickly detect three-phase unbalance condition via the comparison of three-phase voltages and currents.



to detect and

▼ MOCOM-VT





MOCOM-VT monitors the physical aspect through its wireless vibration and temperature sensors. The edge computing capability of MOCOM-VT empowers it analyze the abnormal vibration through harmonic frequency and component. For temperature detection, it detects not only the motor temperature, and also performs simultaneous comparison with temperature sensor on wireless gateway (MOCOM-DC) to avoid false alarm due to environmental factors.

MOCOM-DC

MOCOM-DC is the data collector of the MOCOM family; it supports Sub-GHz and Ethernet, and can be powered by AC or PoE (Power over Ethernet). Data acquired by Data collected can be uploaded to server for remote monitoring via MOCOM-DC. Other main functions of MOCOM-DC are:

- Wireless repeater
- Environmental monitor
- · Auto sensor searching
- · Auto reconnection mechanism

MOCOM-DC can be pre-configured for sensor pairing, which enables Auto Sensor Searching and Auto Reconnection at every startup or disconnection. Communication distance between MOCOM-DC and sensors is up to 100 meters, and MOCOM-DC also

monitors ambient temperature to avoid false alarm due to climate change.



Feature Highlight

- ▶ Power monitoring:
 - 3-phase voltage and current
 - Active, reactive and apparent power
 - Power factor
 - Total Harmonic Distortion (THD)
 - Harmonic analysis

- Wireless motor vibration monitoring
- Wireless motor temperature monitoring
- Edge computing sensors
- Wireless repeater up to 100m
- ► Communication auto reconnection



Headquarter

Power Diagnostic Service

Steinhaldenstrasse 22, 8954 Geroldswil, Switzerland Phone: + 41-44-5769381 Email: sales.ch@pdservice.com

R&D Center

No.10, Ln.482, Sec.4, Zhonghua Rd. Hsinchu City, 30094, Taiwan Phone: +886-3-5305588 Email: sales.tw@pdservice.com