

Thermal Condition Monitoring K6PM



Respond to issues quicker and avoid costly breakdowns on your equipment

Contributing to "Zero-downtime" of facilities and equipment.

Continuously monitor the temperature of your equipment and improve predictive maintenance.

User-friendly

Our unique algorithm will allow inexperienced personnel to recognize an abnormality and take action.

Continuous thermal monitoring

Constant and remote monitoring of the temperature status is available, on-site maintenance is needed only when when abnormalities occur.

Predictive maintenance

A prediction of temperature deviation over time provides early detection of an abnormal tendency and scheduled maintenance.



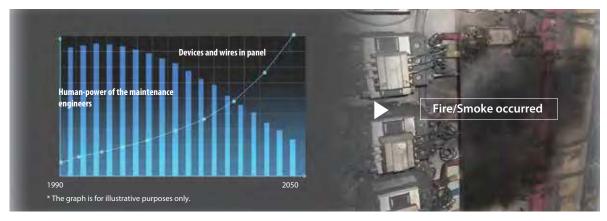


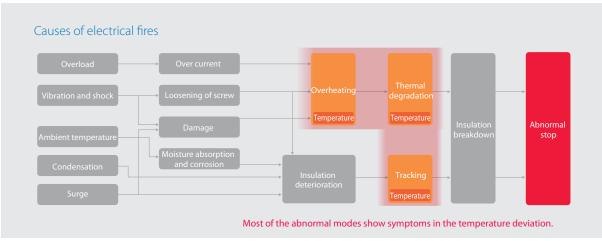


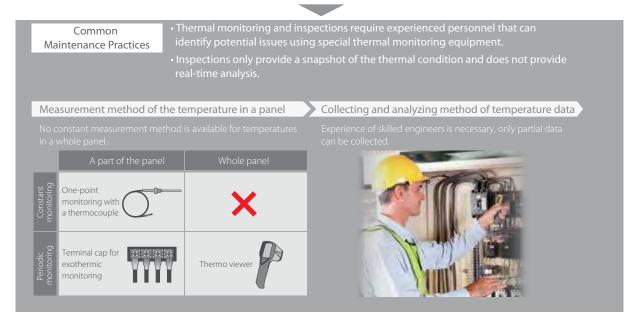
Detect failures early, reduce downtime, and perform predictive maintenance

Issues on site

The number of devices in the panel are increasing due to the higher functionality requirements of equipment and devices. On the other hand, available maintenance personnel have decreased over time.









Omron's Solution

- Thermal condition monitoring reduces the amount of manual inspections and continuously monitors the condition of the panel or component. It can be used as an early fire detection device.
- Automated collection and analysis reduces the setup and operation time.

Measurement method of the temperature in a pane

Collecting and analyzing method of temperature data

Constant measurement is possible for temperatures in the whole panel.

Identifying an abnormal part by automatic analysis, without help from skilled engineers.

Thermal condition monitoring device K6PM-TH



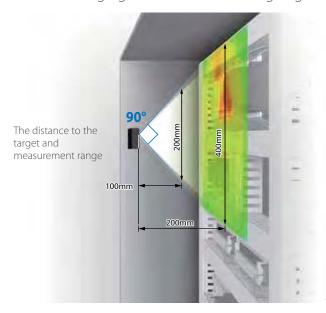
Key Applications

- High voltage motor control panels
- High voltage switchgear
- Power distribution equipment
- Power generation equipment
- · Hydraulic equipment
- Bearings and gearboxes
- R & D Test Cells
- Data Centers
- Early fire detection



Accurate temperature monitoring without the need of manual inspections

The Thermal Imaging Sensor's wide viewing angle and compact body allows for flexible installations.







Environmental resistance

Assuring a normal operation under a harsh environment



standard

-10 to 55°C

Vibration

Easy Mounting

Mount with a magnet or an after market camera mount

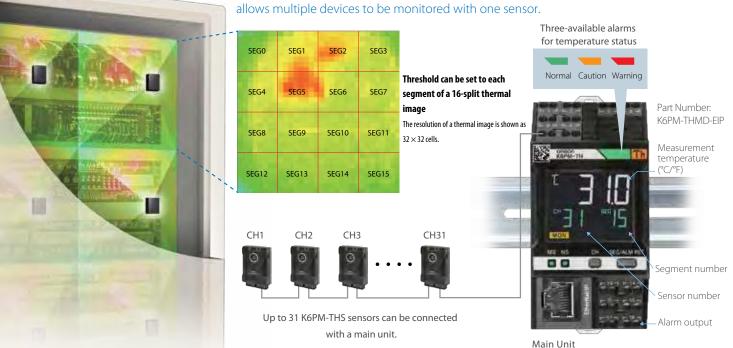


Backside: Magnet (Included)



After market camera mount (Not Included)







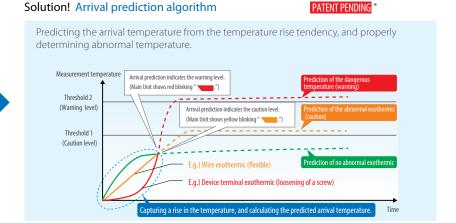
Omron's proprietary algorithms eliminates the need for complex analysis and provides a faster setup time

Features 1

Predicting temperature increases and alerts the user before the device reaches it's critical warning level.

Issues on maintenance at sites

Sometimes damages occur in early stages of temperature increases.



Features 2

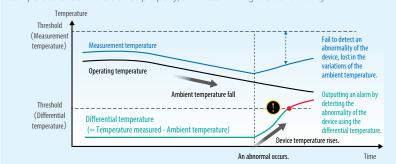
Maintains accurate temperature monitoring in environments with ambient temperature changes.

Issues on maintenance at sites

Changes in ambient temperature may affect the component's thermal condition.

Solution! Differential temperature detection algorithm PATENT PENDING*

Measuring the ambient temperature with the inside of the sensor, and constantly calculating the differential temperature from the device temperature. Capturing a temperature rise of the device properly, and determining the abnormality.



Features 3

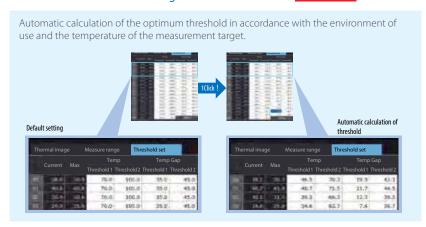
Reduce setup time with built-in Auto threshold feature

Issues on maintenance at sites

For some users, it may be difficult to know what threshold to set for their device

Solution! Auto threshold set algorithm

PATENT PENDING*



System configuration and software tool

Thermal Condition Monitoring Tool" enables the setting and logging of K6PM-TH. K6PM-TH linked with a PC via an Ethernet cable enables you to recognize the temperature status in panels and warning alarms at one view on a remote PC.

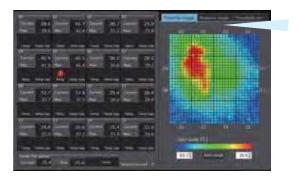


With Thermal Condition Monitoring Tool you can...

Constantly and remotely visualize the temperature status of the panel in multiple points where K6PM-TH are installed.



Quickly know the analyzing results of the measurements at one view



Confirm the temperature status by simultaneously displaying the temperature data and thermal image. Easily identify the device which is outputting an alarm.



Images can be uploaded by user to document the sensor location.*

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