WIRELESS MONITORING SOLUTIONS



CONTINUOUS WIRELESS MONITORING OF ON-LOAD LV/MV ELECTRICAL DEVICES

Inter-Teknik surface temperature sensors / ambient temperature and humidity sensors

- Operating under load (dielectrically resistant)
- Wireless communication
- Integration into main system via industrial communication protocol
- Continuous monitoring of surface temperature and humitidy at critical points
- Easy installation
- Short-Term Return on investment (ROI) performance

Approximately, 25% of electrical faults/fires are due to loose connections, and about 20% are due to ambient conditions.

- Time and cost savings with predictive maintenance
- Predetermination of fault sources
- Dew point detection
- Smart load management
- OPEX reduction by optimisation of allocation site teams
- Improving SAIDI and SAIFI indexes
- Maximizing system uptime
- Maximizing machine uptime
- Eliminate need for periodic testing



LONG LASTING BATTERY

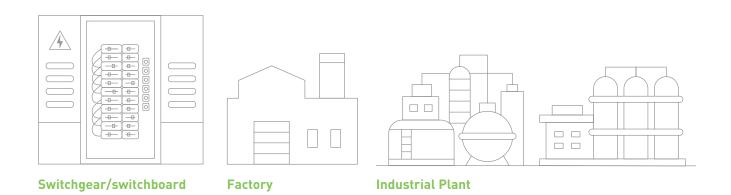
With its innovative algorithm, our sensors offer a battery life of up to ≥5 years.

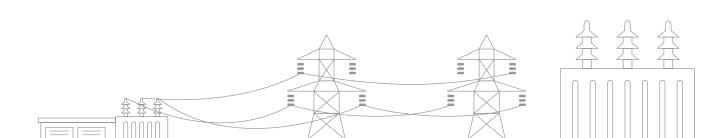
FIELDS OF APPLICATION

- Low Voltage Switchboards
- Medium Voltage Switchgear
- Transformer Substations
- Electrical Infrastructure of Industrial Facilities
- Bus-bar Monitoring
- Transformer / Reactor Monitoring
- Climatic Environment
- Disconnector / Circuit Breaker Monitoring

More often than not, excessive temperature rise in bus-bars can be considered as a harbinger of a major problem or fire. These hidden problems must be observed by means of periodic maintenance, but taking such precautions may become complex due to the following reasons.

- Inaccessibility to the intended location, and visual impairment to monitor all points (For instance, bus-bars)
- Safety of maintenance operators
- Facility's lack of tolerance for power outages due to maintenance





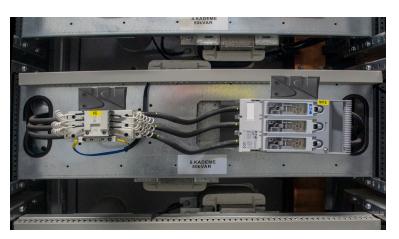
Substation Transformer



Capacitor Bank Monitoring



Transformer Substations



Industrial Facilities



Busbar Monitoring



Circuit Breaker Monitoring

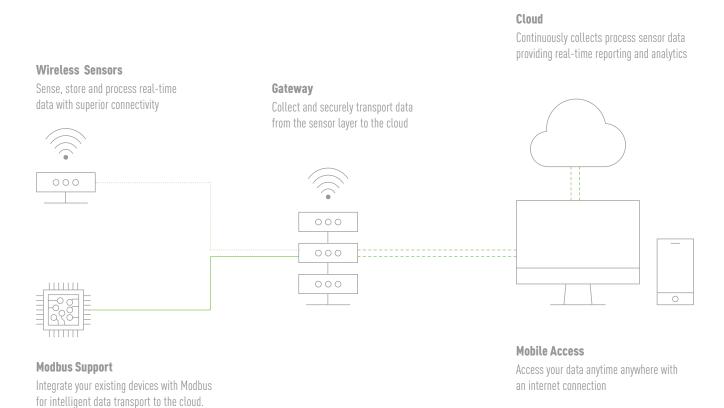


Disconnector

SPECIFICATIONS

- Battery life of up to > 5 years without replacement
- Communication distance of up to 60 meters

System Architechture



TECHNICAL SUPERVISION BY OUR EXPERIENCED TEAM

- System commissioning
- SCADA and DCS Integration
- Fault detection
- Real-time alarms
- Data management consultation
- Analysis of sensor data
- Training of field operators

4

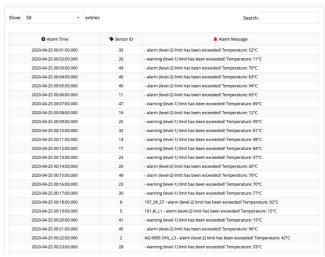
WEB INTERFACE

In facilities where no SCADA system is available, the temperature can be monitored by using Web interface.

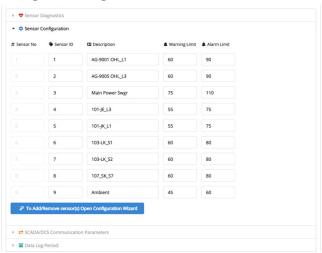
Home Page



Wireless Temperature Monitoring System - Alarm Page



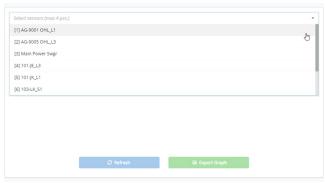
Configuration Page



Trend Page



Trend Page (Filtering Sensor Nodes)



Trend Page (Graphics View)



Configuration Page



YOUR SOLUTION-PARTNER FOR MONITORING MV FUSES

In fuse-protected medium voltage lines, the status of striker pin of the fuse is usually monitored visually in outdoor switching stations. In order to provide uninterrupted energy, monitoring of status of fuse pin is of utmost importance. Nonetheless, every so often, inaccessibility to the site renders such conventional visual monitoring inconvenient.

With our wireless fuse monitoring solutions, you can monitor the status of the fuse and minimize power outages.

Using LoRa (Long Range Wifi) technology, our sensors can transmit data up to 15 km.*



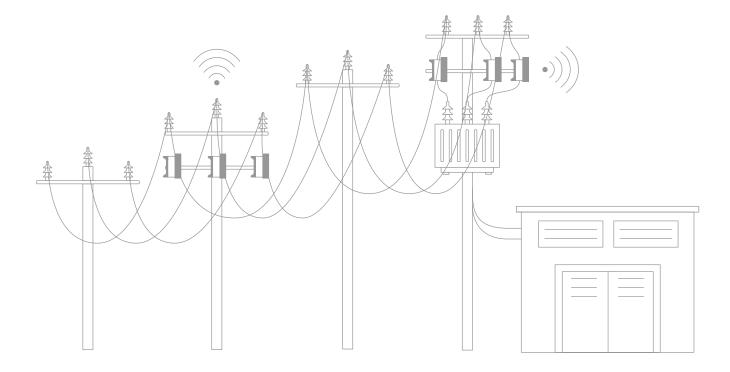
ADVANTAGES

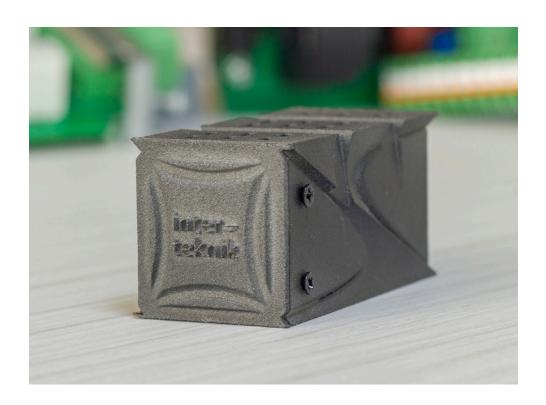
- Wireless communication
- Easy installation
- Remote monitoring and customizable alarms
- Instant notification upon power cuts
- Pinpointing faulty line & pole determination, effective workforce guidance
- Minimizing downtimes

^{*} Varies according to environmental conditions.

SPECIFICATION

- Minimal installation time
- Does not require constructional changes in the existing system
- Battery life of up to > 5 years without replacement
- Communication distance of up to 15km.





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Headquarters

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