

# SF<sub>6</sub> Gas Monitoring and Analytics System

MEPPI'S IMPROVED MONITORING  
SYSTEM EXPERTLY TRACKS,  
PREDICTS, AND REDUCES SF<sub>6</sub> LEAKS



# ADVANCED, REAL-TIME DATA

MITSUBISHI ELECTRIC POWER PRODUCTS, INC.

As a leader in power product innovation, Mitsubishi Electric continues to look toward the future when developing reliable equipment with maximum safety and sustainability in mind. Our improved gas monitoring system aims to enhance functionality while honoring our environmental commitments.

Designed to provide multidimensional gas-density tracking, this SF6 Gas Monitoring and Analytics System was created nearly a decade ago by our Mitsubishi Electric Power Products in Warrendale PA. Since then, its capabilities have only grown with enhancements like machine-learning analysis, expanded equipment agnostics, and predictive technology.

It's compatible with GIS and AIS substations with integrated dead-tank circuit breakers, new or retrofit MEPPi equipment applications, and even

competitor models. Existing customers also have the option of replacing their current gas density monitoring system with the latest design.

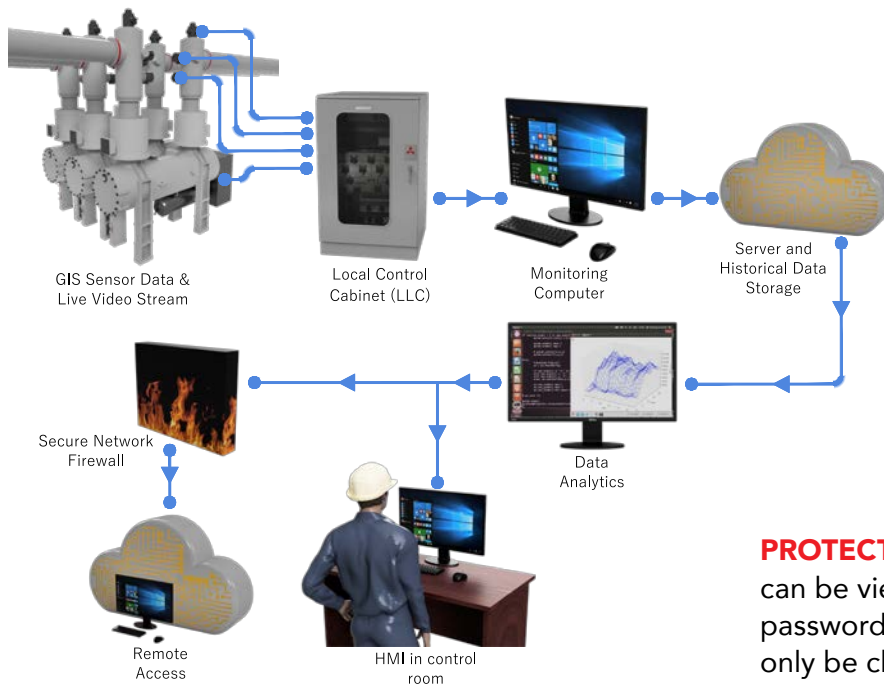
In addition to overall peace of mind, the Gas Monitoring System can reduce costly site visits and increase employee safety, while providing real-time gas pressures. Users can even link the system to utility work-order functionality for more efficient, need-based deployment of maintenance personnel.

*Our time-proven designs, rigorous manufacturing and vendor management processes ensure robust, long-lasting products.*

## OPERATORS CAN FIRMLY CONTROL:

- ◆ Inventory and accounting
- ◆ Leak detection and repair
- ◆ Gas refilling and recovery
- ◆ Recycling and disposal of SF6
- ◆ Equipment upgrades/replacement
- ◆ Proper decommissioning





**NEARLY A DECADE  
OF RELIABLE GAS-  
LEAK PROTECTION**

## SF6 MONITORING SYSTEMS

The SF6 Gas Monitoring System has been a key component in leak detection for utilities around the world since 2012. With new CARB regulations emerging to reduce greenhouse gases, we can confidently offer a system that protects your equipment, your people, and your bottom line.

**DETECT** — Real-time tracking, data analysis, and data reporting are operating 24/7 under the improved gas monitoring system. It accurately confirms SF6 tracking reports as supplied to the EPA, automatically records refill events with an event logger, and conveniently confirms maintenance logs via an easy-to-use interface.

**PREDICT** — Integrated predictive technology provides crucial monitoring reports so you can address events with speed and accuracy. Identification of the leak rate and affected zones can keep you one step ahead of potential costly maintenance.

**DEPICT** — The user interface provides valuable, real-time data through both numeric and graphic reporting on the personalize workstation. This increases operational knowledge, control, and reaction time when analyzing SF6 conditions.

**PROTECT** — While gas-density tracking can be viewed by multiple substations, password-protected alarm settings can only be changed by authorized personnel. This advanced system addresses events with precision to protect the equipment and avoid excess emissions.

### KEY FEATURES

- ◆ 24/7 remote gas monitoring
- ◆ Advanced algorithm driven by real-world cumulative data
- ◆ Compatible with systems with an SF6 port, and DNP 3.0 or IEC 61850
- ◆ Leak prediction years before alarm, detecting as low as 0.1% gas leakage per year
- ◆ Confirms EPA reporting requirements with SF6 tracking
- ◆ Automatic SF6 event logging
- ◆ Enhanced, real-time analytics
- ◆ Improved account security with password encryption and protection



*Every system is designed to ensure safe ingress and egress points, and easy access to operators, gas density monitors and viewports.*

## **BENEFITS OF CONTINUAL SF6 MONITORING**

### **DOUBLE CHECK SF6 INVENTORY**

If your primary SF6 tracking involves the bottle-in/bottle-out method, you can use MEPPi's Gas Monitoring System to ensure accurate inventory.

### **PREDICT A LEAK, BEFORE A PROBLEM ARISES**

Potential leaks are reported immediately based on predictive analytics, not just at the time of alarm.

### **CONFIRM DATA REPORTS, EVEN WHILE REMOTE**

Access to SF6 gas data on or off site, including gas weight & pressure data for observation or comparison.

### **UTILIZE RAW DATA FOR WHOLE-ENTERPRISE MONITORING**

Expand the gas monitoring capabilities into your utility-wide system. Connectivity for transformers, generators, and breakers give you clear, consolidated data.

### **DECREASE ON-SITE TRACKING TASKS AND VISITS**

Remote operation and 24/7 tracking help prepare EPA reports with ease, and reduce site visits and costly maintenance.

## **MITSUBISHI ELECTRIC POWER PRODUCTS, INC.**

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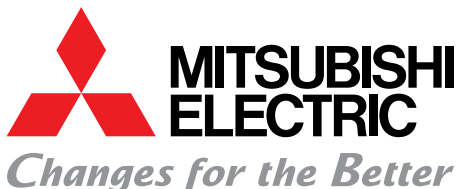
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for a greener tomorrow

