EXECUTIVE OVERVIEW

Raychem SmartTrace

HEAT TRACE MONITORING & MANAGEMENT

Improving visibility, reliability, and control of industrial heat trace systems

Raychem SmartTrace is a flexible heat trace monitoring and management platform designed to provide real-time system visibility, reduce operating and maintenance effort, and give organizations direct control over heat trace performance and reliability.

Built from real-world experience managing heat trace in operating facilities.

1. THE HEAT TRACE MANAGEMENT CHALLENGE

Heat trace systems are critical to maintaining production, protecting equipment, preventing freeze-related failures, and supporting safe operations.

Despite their importance, many facilities still manage heat trace through a combination of manual controller walkdowns, seasonal inspections, disconnected monitoring systems, spreadsheets, and reactive maintenance practices.

This can lead to:

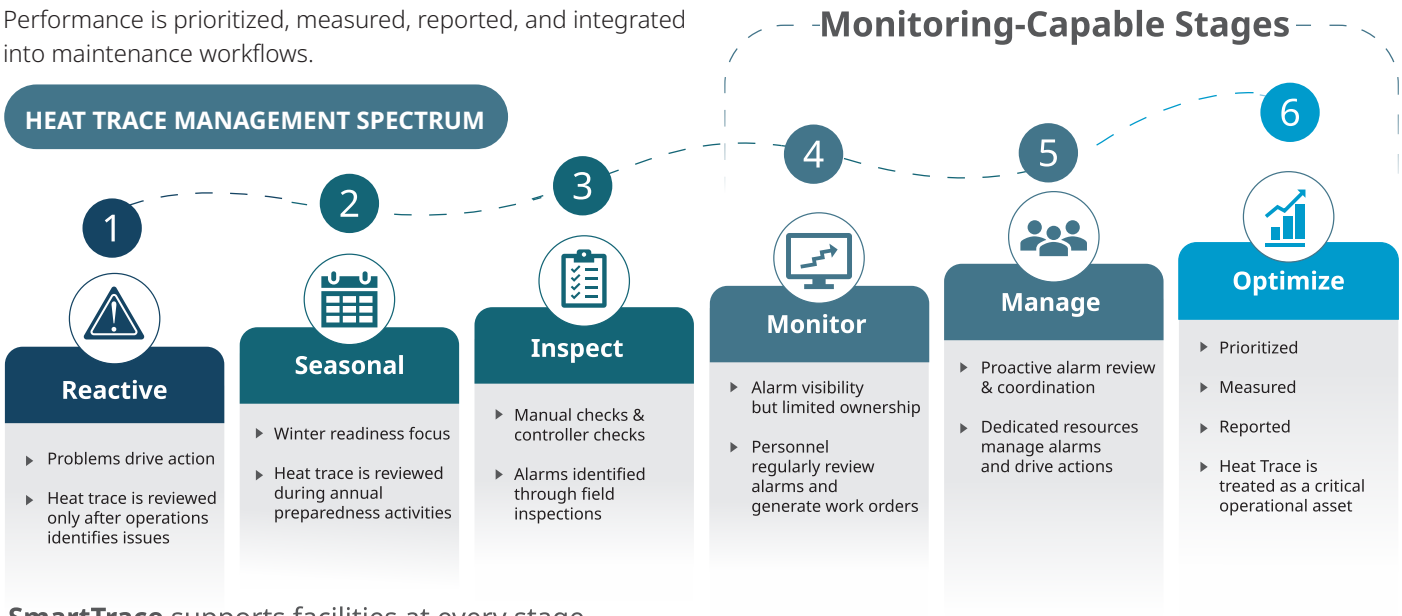
- Limited visibility
- Alarm overload
- Manual inspections
- Fragmented information
- Reactive maintenance

The result is increased maintenance effort, higher operational risk, slower response to critical issues, and reduced confidence in heat trace performance.

2. HOW DOES YOUR FACILITY MANAGE HEAT TRACE TODAY?

Heat Trace Managed as an Asset

Performance is prioritized, measured, reported, and integrated into maintenance workflows.



SmartTrace supports facilities at every stage.



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SmartTrace supports organizations wherever they are today.

Whether a facility relies on inspections, periodic monitoring, or dedicated heat trace resources, SmartTrace provides the visibility, information, and tools needed to improve how the system is managed.

3. WHAT IS SMARTTRACE?

SmartTrace is purpose-built software for monitoring and managing electrical heat trace systems.

It connects heat trace controllers, operational information, documentation, alarm data, and maintenance workflows through a single platform.

SmartTrace gives operations, maintenance, reliability, engineering, and management teams access to a common view of heat trace system health and performance.

Core Capabilities



Real-Time Monitoring

View controller, panel, circuit, communication, alarm, and performance information across the facility.



Documentation and Asset Information

Bring drawings, circuit information, controller settings, records, and system history together in one location.



Alarm Management

Add context and criticality to alarms so teams can distinguish immediate operational risks from issues that can be addressed through planned maintenance.



Maintenance Workflow Support

Support work prioritization, corrective action planning, field reporting, inspections, and integration with existing maintenance processes.



Trending and Analytics

Review historical temperature, current, ground-fault, programming, alarm, weather, and power data to better understand system performance.



Reporting and Oversight

Provide automated reporting, audit trails, multi-site visibility, and a consistent view of heat trace performance.

4. WHAT SMARTTRACE HELPS FACILITIES ACHIEVE

Prevent Operational Disruptions

Identify developing heat trace issues before they contribute to frozen lines, equipment damage, delayed startups, process interruptions, or production losses.

Improve System Visibility

Gain real-time insight into heat trace health, alarms, programming, performance, and risk across individual facilities or multiple sites.

Reduce Maintenance Effort

Reduce time spent conducting manual inspections, reviewing nuisance alarms, gathering information, and troubleshooting issues without context.

Improve Heat Trace Reliability

Use trends, alarm history, asset data, and programming information to identify recurring issues and support more proactive maintenance.

Reduce Total Cost of Ownership

Make better use of existing controllers, communication infrastructure, and maintenance resources while reducing unnecessary field activity and avoidable failures.

Standardize Heat Trace Management

Establish common processes, reporting, records, and performance visibility across facilities, operating regions, and controller platforms.

Support Energy Performance

Identify excessive force-ons, improper programming, and other operating conditions that may contribute to unnecessary heat trace power consumption.

5. WHY SMARTTRACE?

Many systems provide heat trace alarm visibility.

SmartTrace is designed to help organizations actively manage heat trace performance.

Purpose-Built for Electrical Heat Trace

Developed specifically around the operational, maintenance, engineering, and reliability requirements of industrial heat trace systems.

Works With Existing Infrastructure

Supports mixed controller environments and industry-standard communication methods without requiring facilities to replace their entire installed controller base.

Monitoring and Management

Combines real-time monitoring with alarm prioritization, analytics, documentation, programming visibility, reporting, and maintenance workflow support.

Flexible Deployment

Available through cloud, on-premise, or hybrid deployment approaches to align with facility operational and cybersecurity requirements.

Industrial Integration

Supports integration with existing DCS, SCADA, SAP, Maximo, CMMS, and other operational or maintenance systems, subject to project requirements.

SMARTTRACE ENTERPRISE

For organizations requiring additional support, SmartTrace Enterprise extends the site team with access to dedicated heat trace expertise.

SmartTrace specialists can support alarm review, system health assessments, troubleshooting, reporting, performance improvement, and maintenance prioritization.

This provides the benefit of dedicated heat trace support without requiring every facility to build a specialized internal team.

6. SEE HOW LEADING FACILITIES MANAGE HEAT TRACE

Schedule a SmartTrace demonstration to discuss your current heat trace management approach, review common operational and maintenance challenges, and see how SmartTrace can improve visibility, reliability, and control across your heat trace systems.

Book a SmartTrace Demonstration

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