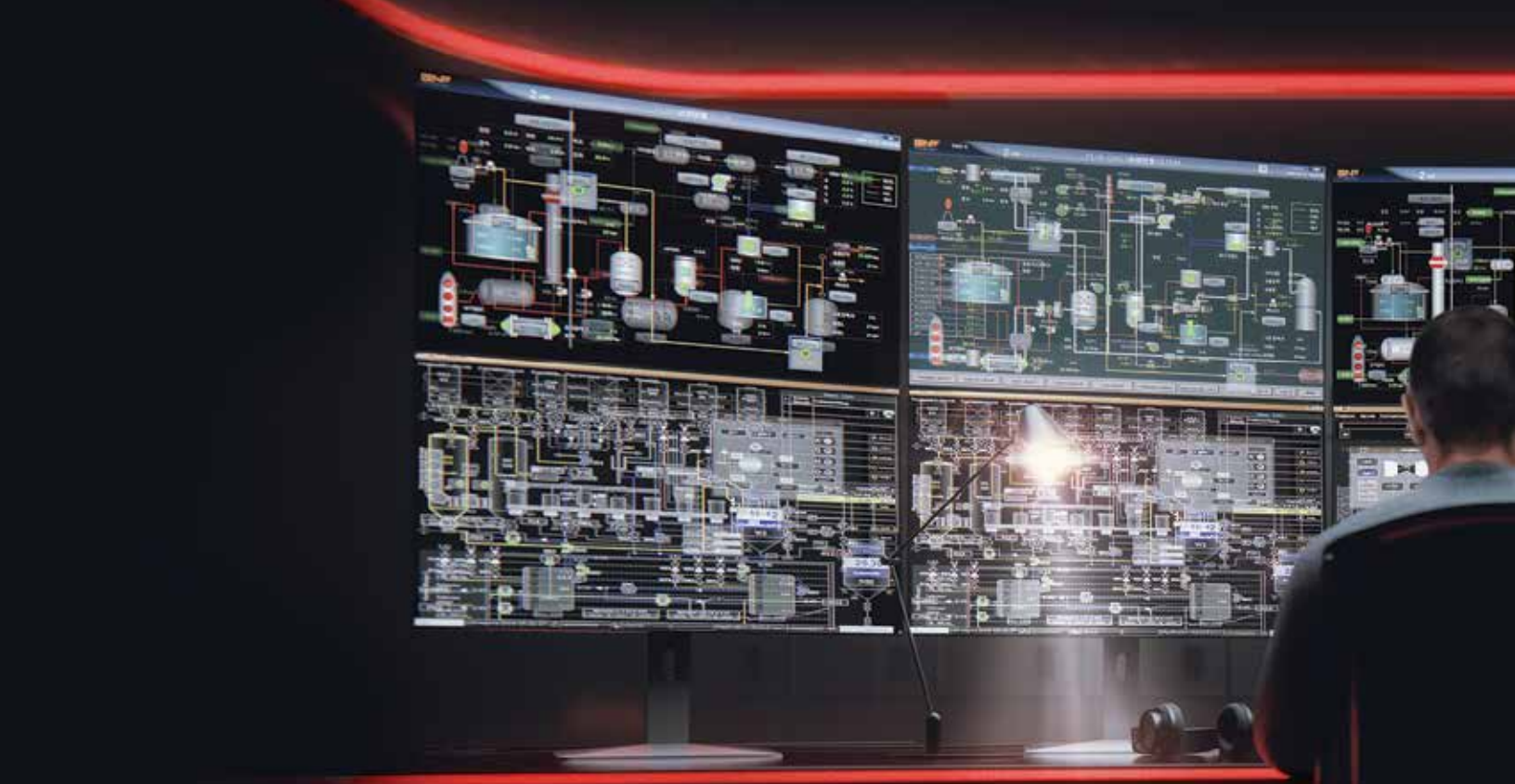**CONNECT AND PROTECT**

ELEXANT 4000 SERIES SINGLE-POINT HEAT TRACING CONTROLLERS

nVent

RAYCHEM

Elexant 4000 series overview

WHEN ELECTRIC HEAT TRACING IS THE LIFEBLOOD OF YOUR INDUSTRIAL PROCESSES, THE ELEXANT CONTROLLER IS THE HEARTBEAT OF YOUR SYSTEM.

The Challenges of Heat-Tracing

With demand to produce higher yields, improve production quality and maintain safety standards across increasingly complex industrial processes, the need for reliable heat-tracing control has never been greater. Both customers and employees are seeking greater transparency and efficiency from industrial production, making it imperative for businesses to pursue innovative technologies that embrace the potential of Industry 4.0.

In both hazardous and non-hazardous areas, safety remains the utmost priority. Heat-tracing safeguards what matters most in industrial applications, making it vital for managers and engineers to have comprehensive and easily accessible insight over their heat-tracing installations.

Elexant: The Solution

The nVent RAYCHEM Elexant 4000 Series is designed to fulfil all these objectives and realize the potential of connectivity in heat-tracing. Representing the next generation of heat-trace controller technology, the Elexant 4000 series maximizes operational output, control and safety with preventative maintenance features.
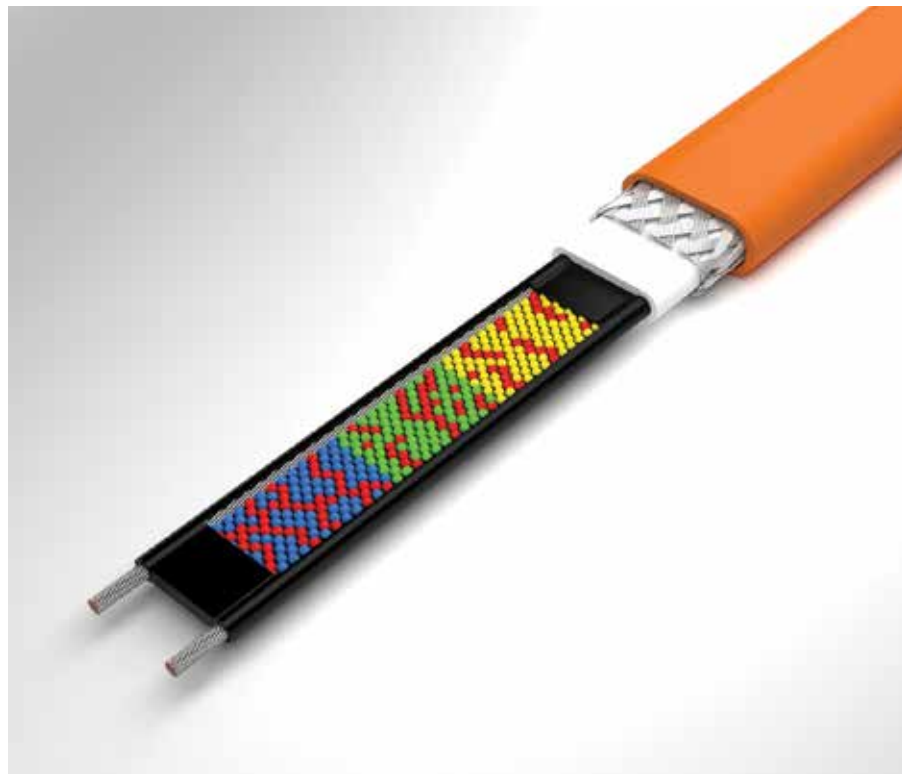
The new single-point controllers offer valuable oversight; alerting users to potential issues before they become a critical concern. The Elexant 4000 series are 'Smart', connected controllers that can communicate with any Distributed Control Systems (DCS), centralizing monitoring and alarm management and ensuring facilities remain safe and operational at all times.

The nVent RAYCHEM Legacy

Building on decades of expertise in industrial, residential and commercial projects, the Elexant 4000 series is the latest breakthrough in the history of nVent RAYCHEM reliability. Since the development of the first self-regulating electric heat trace cable in 1973, every nVent RAYCHEM product has been developed amid a culture of quality and innovation, with nVent RAYCHEM cables continuing to be recognized as the highest industry standard in electric heat tracing. The valued benefits of nVent RAYCHEM products are best demonstrated by their continued popularity in a wide variety of applications and environments worldwide.

Now, with the launch of the Elexant 4000 series of controllers, nVent RAYCHEM continues to push the limits of electric heat-tracing by providing intelligent, reliable and cost-effective solutions for industrial applications.

What can Elexant controllers do for you?

THE ELEXANT 4000 SERIES BRINGS THE FOLLOWING VALUABLE BENEFITS TO A HEAT-TRACING SYSTEM

Safety and Control

Insight

Elexant controllers provides comprehensive insights over your entire system, widening the scope of monitoring and control to make it easier to identify the root causes of issues when they occur. Designed to collect and integrate all data, Elexant controllers offer full visibility and central alarm management capabilities.

Reliable protection where you need it most

Elexant controllers act as the heart of a heat-tracing system – providing the highest levels of safety and reliability. A smart limiter and intrinsically-safe (IS) barrier options, along with self-testing features ensure heat-tracing cables continue to function, while reducing the need for costly routine inspections.

Global approvals

As business becomes ever-more international, there is an increasing need for standardized, globally approved designs in heat-tracing components. The Elexant 4000 series is fully compliant with all major international standards including NEC/CEC, IEC Ex and ATEX, resulting in a versatile, reliable controller solution that works for any business, anywhere.

Reducing Costs, Promoting Production

Easy design and install

Elexant controllers come ready to install, eliminating the need for custom panel design or field assembly, delivering a drastic saving in field commissioning time. In addition, each controller is equipped with an intuitive touch screen interface with a clear color display for ease of use and a simple programming process. No additional programming equipment is needed: one control system with one streamlined installation and design interface.

Reduced energy consumption and inspections

Elexant controllers measure a complete set of parameters including temperature, current and voltage to ensure system integrity and help reduce energy consumption. Integrated features, such as Ground Fault detection and alarm/trip functionality further reduce the cost of ownership and improve operational efficiency. The self-test function can additionally

be set to check heating cables for faults, eliminating the need for costly manual maintenance checks.

Connectivity & Flexibility for Industrial Applications

Ready for Industry 4.0, Elexant controllers bring the Internet of Things to industrial heat-tracing. With multiple control modes to optimize electric heat-tracing control applications, flexible upstream communication options and an intuitive user interface (UI), the Elexant 4000 series makes monitoring complex industrial heat-tracing systems easier and more efficient than ever before. The controllers seamlessly integrate into DCS systems to allow data from all units in a plant to be accessed both locally and centrally - all in one streamlined dashboard.

Working with your systems - backwards compatibility

The potential for cost-saving is facilitated by full compatibility with the nVent RAYCHEM Supervisor software package. Through this parent software, the 4000 Series can connect with systems using 910/915/920 and NGC family controllers for seamless integration in facilities with mixed controller types.

Elexant 4010i and 4020i

Features

The first models in the Elexant 4000 series - the 4010i and 4020i – are designed for industrial applications. These controllers feature all the reliable, smart and cost-efficient features of the Elexant 4000 series.

The Elexant 4010i is a single point controller situated in either a fibreglass or stainless steel enclosure, with cULus, IEC Ex/ATEX approvals for use in Class I, Div.2 and Zone 2 areas. It is enabled with USB connectivity to allow for faster upload or download of user profiles, and features Ethernet and Modbus RS485 communication functionality.

The Elexant 4020i is a Din-rail mounted controller designed for use at higher operating temperatures. Like the 4010i, the 4020i is fully compliant with all major international standards, and features enhanced connectivity. Customers can opt to add a ProfiBus connection to the 4020i's existing Ethernet, Modbus RS485 capabilities.

The Elexant 4000 Series:

Smart connected control for modern industrial processing

With global approvals and multiple connectivity options, wherever and however you prefer to do business, Elexant is ready to support your systems. The intuitive and easy-to-programme controllers give you complete insight over your alarms, empowering you to improve the safety and efficiency of your industrial processes. Through highly accurate energy consumption monitoring and an innovative self-test function, the Elexant 4000 series saves your business time and money.

The Elexant 4000 series: the heartbeat of your heat-tracing.

Yours,

the Elexant Controllers

elexant.com

This is nVent

We have the capabilities to make the difference in any building project, from increasing safety to adding comfort while lowering total installed costs.

We are where you need us, with more than 9000 employees and partnerships with leading wholesalers, we service the globe. We travel the globe to support our customers in their most exigent building projects, providing design and installation support where needed.

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workforce

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