艾默生
工驭非凡 智启自主未来

Emerson
Engineering the Autonomous Future



EMERSON

关于艾默生
About Emerson

艾默生是全球自动化领域的先进企业，致力于为严苛的技术挑战提供解决方案。
总部位于美国密苏里州圣路易斯市，艾默生正在构建自主化的未来，助力客户优化运营并加速创新。

Emerson is a global automation leader delivering solutions for the most demanding technology challenges.
Headquartered in St. Louis, Missouri, Emerson is engineering the autonomous future, enabling customers to optimize operations and accelerate innovation.

纽约证券交易所代码
NYSE
EMR

成立于
Founded
1890

全球
~71,000员工
Employees Worldwide

117生产设施
Manufacturing Locations

艾默生在中国的业务始于70年代，业务总部设在上海，本着"在中国、为中国"的一贯战略，我们持续投资以提升本地化的研发、生产、工程及服务能力，深入了解中国用户的行业挑战及应用需求，通过创新的技术与理念，服务广大用户。

Emerson started the business in China with technology partnership from the 1970s. The China headquarters is in Shanghai. With the "In China, For China" strategy, we have continuously invested to enhance local capabilities in research and development, production, engineering, and services. By gaining an in-depth understanding of the industry challenges and application needs of Chinese users, we serve a wide range of customers through innovative technologies and concepts.

25
生产、研发及系统工程中心
Manufacturing, R & D,
and System Engineering Sites

63
现场服务覆盖城市
Field Service Coverage Cities

业务领域
Business Segments

软件与系统
- 控制系统与软件
- 测试与测量

Software & Systems
- Control Systems & Software
- Test & Measurement

智能设备
- 测量方案
- 最终控制

Intelligent Devices
- Measurement Solutions
- Final Control

安全与效率

Safety & Productivity

核心品牌
Signature Brands

DeltaV™ Ovation™ Rosemount™ Micro Motion™ Fisher™ Asco™
Keystone™ Branson™ Flexim™ Bettis™ Aventics™ Appleton™
AMS™ KTM™ Vanessa™ Aperio™ Guardian™

我们的目标
Our Purpose

我们推动创新，
让世界变得更加健康、更加安全、更加智能，并更具可持续性。

We drive innovation
that makes the world healthier, safer, smarter and more sustainable.

环境治理概览 - 目标与关键绩效指标
Planet Overview - Goals and Key Performance Indicators

2045

2021年起致力于实现**净零价值链**

Net Zero Value Chain from 2021



- 致力于将范围1、2及3的绝对排放量减少90%，并中和剩余不超过10%的排放。
- 自2021年以来，范围1和2排放量已减少48%。
- 自2021年以来，范围3排放量已减少13%。

- Reduce absolute Scope 1, 2 & 3 emissions by 90%, and neutralize up to 10% of total emissions.
- Reduced Scope 1 and 2 emissions by 48% since 2021.
- Reduced Scope 3 emissions by 13% from 2021.

2030

2021年起致力于实现**净零运营**

Net Zero Operations from 2021



- 2021年起，将能耗强度降低35%，并实现100%采购可再生能源电力。
- 全球57%的电力来自可再生能源。
- 自2021年以来，能耗强度已累计降低30%。

- Reduce energy intensity by 35% from 2021, procure 100% electricity from renewable sources.
- Procured 57% of electricity from renewable sources worldwide.
- Reduced energy intensity by 30% since 2021.

2032

2022年起致力于实现**零废弃物填埋**

Zero Waste to Landfill from 2022



- 在生产设施中，将90%的非有害废弃物从填埋和焚烧中分流（进行回收或再利用）。*
- 目前已成功分流58%的非有害废弃物。

* 需符合当地条件与法律法规的要求。

- Divert 90% of non-hazardous waste from landfill and incineration, in manufacturing facilities.*
- Diverted 58% of non-hazardous waste.

* wherever this is compatible with local conditions and regulations.

2032

2022年起致力于**减少用水量**

Water Use Reduction from 2022



- 到2032年，将生产设施的外购水量减少10%。*
- 从2021年起已减少4%的外购水量。

* 需符合当地条件与法律法规的要求。

- Reduce water purchased by 10% by 2032, in manufacturing facilities.*
- Reduced water purchased by 4% from 2021.

* wherever this is compatible with local conditions and regulations.

2032

可持续文化全员参与

Sustainable Culture Engaging employees



- 在艾默生的全球组织中已建立超160个绿色小组。
- 超4,200名员工参与了"地球月"活动。

- 160+ Green Teams across Emerson's global footprint.
- 4,200+ employees participated in Earth Month activities.

SCIENCE BASED TARGETS
DRIVING AMBITIOUS CORPORATE CLIMATE ACTION

艾默生的温室气体（GHG）减排目标已获得科学碳目标倡议（SBTi）的验证。
Emerson's GHG emissions targets have been validated by the Science Based Targets Initiative (SBTi).

资 料 下 载

控制系统与软件
Control Systems & Software

Ovation™自动化平台

艾默生Ovation专家控制系统是面向电力、可再生能源、水和废水处理及钢铁等行业的安全运行解决方案。依托艾默生五十余年在电力和水处理等领域的专业经验，结合先进的Ovation自动化技术，该平台具备高可靠性、持续创新性与前瞻适应性，能够助力工厂与设备实现更稳定、高效的运行。

艾默生为电力行业提供定制化智能运维生态系统，引入软件定义、支持人工智能的架构，以AI驱动、数据互联为核心，构建全链条智能生态，覆盖全场景服务，可精准监测、智能调控、预测维护、提效降本，助力电力行业转型，契合双碳目标。

主要产品

- Ovation™ DCS 控制系统
  - 软件定义控制器
  - 软件定义I/O
- 生产过程优化解决方案
  - 深度调峰
  - 燃烧优化
  - 吹灰优化
  - 脱硝优化
  - 供热优化
- 智慧运行解决方案
  - 智慧监盘
  - 智能自启停
  - 故障回放
  - 报警优化
  - 嵌入式仿真
- 厂级智慧运营解决方案
  - 设备管理平台
  - 旋转设备诊断
  - 预测维护
  - 经济优化
  - 网络安全
- Ovation™ AI 智能解决方案
  - Ovation™ 虚拟顾问
  - Ovation™ AI 智能体

Ovation™ Automation Platform

Ovation Automation Technology: Advanced Solutions for Secure, Reliable Plant Operation in the Power, Renewable Energy, Water & Wastewater Treatment and Steel Industries. Built on Emerson's five decades of power and water treatment expertise, and powered by advanced Ovation automation technology, the platform delivers exceptional reliability, continuous innovation, and future-ready adaptability, empowering plants and assets to achieve more stable and highly efficient operations.

Emerson provides a customized intelligent O&M ecosystem for the power industry. Built on a software-defined and AI-enabled architecture, the system establishes an end-to-end intelligent ecosystem centered on AI-driven capabilities and data interoperability. Covering full-scenario services, it facilitates precise monitoring, intelligent regulation, predictive maintenance, and cost-effective efficiency gains, thereby empowering the industry's transformation and aligning with carbon peaking and carbon neutrality goals.

Major Products

- Ovation™ DCS Control System
  - Software-defined Controller
  - Software-defined I/O
- Process Optimization Solutions
  - Deep Peak Regulation
  - Combustion Optimization
  - Intelligent Sootblowing
  - SCR Optimization
  - Heat Supply Optimization
- Intelligent Operations Solutions
  - Smart Monitoring
  - APS / iABS
  - Playback
  - Alarm Optimization
  - Embedded Simulation
- Plant-wide Intelligent Operation & Maintenance Solutions
  - Device Management Platform
  - MHM
  - Predictive Maintenance
  - Economic Optimization
  - PWCS
- Ovation™ AI Solutions
  - Ovation™ Virtual Advisor
  - Ovation™ AI Agent



资 料 下 载

Ovation™ Green可再生能源解决方案

艾默生可再生能源战略以自动化与数字化为核心，通过“硬件+软件+服务”布局，结合技术融合、区域及生态合作与场景化方案，推动全球能源转型。其核心产品Ovation Green是可再生能源专用软件与自动化解决方案组合，依托领先自动化平台及电力与可再生能源专业能力，将控制架构拓展至绿能市场，为电力生产商提供简化自动化解决方案，助力搭建并拓展可持续运营模式。

Ovation Green平台可让用户全面获取可再生资产实时及历史操作信息并精准管控，通过数据驱动智能方案实现科学决策，提升系统可用性与可靠性、降低运维成本。其自适应技术可灵活拓展可再生能源资产，助力清洁能源无缝融入智能电网。此外，Ovation Green提供全球本地顾问端到端支持，助力客户提产并提供低成本清洁能源。

主要产品

- PPC 控制器
- 电网边缘控制器
- 风电变桨系统
- 风电控制系统
- 光伏储能解决方案
- 资产管理和 SCADA 软件
- 能源管理系统
- 源网荷储解决方案
- 综合调度管理解决方案
- 电力孤岛及微电网自动化解决方案
- 虚拟电厂
- 网络安全解决方案

Ovation™ Green Software and Automation Solutions

Emerson’s renewable energy strategy is anchored in automation and digitalization. Driven by a comprehensive “hardware, software, and services” portfolio, we accelerate the global energy transition through technological integration, strategic regional and ecosystem partnerships, and tailored, scenario-based solutions. At the core of this strategy is Ovation Green, a dedicated suite of software and automation solutions for the renewable sector. Leveraging its leading automation platform and deep domain expertise in power and renewables, Emerson extends its control architecture into the green energy market. It empowers power producers with streamlined automation solutions, enabling them to build and scale sustainable operating models.

The Ovation Green platform provides users with comprehensive visibility into the real-time and historical operational data of renewable assets, enabling precise control. By leveraging data-driven intelligent solutions for informed decision-making, it maximizes system availability and reliability while significantly reducing operations and maintenance (O&M) costs. Its adaptive technology allows for the flexible scaling of renewable energy assets, facilitating the seamless integration of clean energy into the smart grid. Furthermore, Ovation Green is backed by end-to-end support from Emerson’s global network of local experts, empowering customers to maximize energy yield and deliver low-cost, clean energy.

Major Products

- PPC Controller
- Grid Edge Controller
- Wind Turbine Pitch Control System
- Wind Turbine Control System
- Solar PV and Energy Storage Solutions
- Asset Management and SCADA Software
- Energy Management System (EMS)
- Integrated Generation-Grid-Load-Storage Solutions
- Integrated Dispatch and Management Solutions
- Power Island and Microgrid Automation Solutions
- Virtual Power Plant (VPP)
- Cybersecurity Solutions



资 料 下 载

DeltaV™自动化平台

艾默生为流程行业提供DeltaV控制系统及解决方案。其控制和安全系统、运营管理、企业集成与优化都基于人性化设计理念，旨在简化操作复杂性和项目风险，并优化工厂运营性能。DeltaV系统采用模块化架构，IO按需配置的电子布线技术具备出众的可扩展性，可以为您提供工程灵活性，帮助您降低项目成本并提高可靠性，实现项目确定性，按预算、按周期交付。DeltaV"数字化工厂"理念兼容多种工业协议，包括HART、Foundation现场总线、无线技术、工业以太网、Modbus、OPC、Profibus等工业协议，并提供了嵌入式的先进控制。

DeltaV SIS通过不间断监视和诊断整个安全回路的健康状况，保证安全运营的环境。

艾默生同时提供基于系统的性能优化服务，包括基础控制和先进控制、规程自动化、报警管理、人性化设计的高性能人机界面以及数字孪生解决方案，旨在实现更好的控制以提高工厂运行的安全性、可靠性和盈利能力。

主要产品

- DeltaV™ 数字控制系统
  - 控制器和 I/O
  - 高性能操作画面
  - DeltaV™ Insight 嵌入式回路监控和整定应用
  - Entech 高级分析、建模和整定工具
  - 先进过程控制 (APC)
  - 基于状态的控制 (SBC)
  - 批量控制和配方管理
  - 控制系统仿真
  - 边缘环境
- DeltaV™ 安全仪表系统
- DeltaV™ 运营管理软件
  - DeltaV™ AgileOps 数字化报警管理软件
  - DeltaV™ Mimic
  - DeltaV™ 实时排产
  - DeltaV™ 离散事件仿真
  - DeltaV™ 过程知识管理
- DeltaV™ 制造执行系统
- DeltaV™ 数据采集与监控系统

DeltaV™ Automation Platform

For process industries, Emerson offers DeltaV distributed control system. The Human Centered Design principles are integrated into control and safety systems, operations management, enterprise integration and optimization to simplify operational complexity and project risks, optimize plant operating performance. The scalable modular based DeltaV automation system with IO on Demand Electronic Marshalling technology provide you with engineering flexibility, help you reduce project costs and improve reliability, achieve project certainty, and deliver on budget and on schedule. The DeltaV "digital factory" concept is compatible with a variety of industrial protocols, including HART, Foundation fieldbus, wireless technology, industrial Ethernet, Modbus, OPC, Profibus and other industrial protocols, and provides embedded advanced control.

The DeltaV SIS ensures a safe operating environment by continuously monitoring and diagnosing the health of the entire safety loop.

Emerson Performance Services based on control systems, including basic and advanced control, procedure automation, alarm management, human-centered high-performance Human-Machine Interfaces (HMI), and digital twin solutions to improve safety, reliability, and profitability of plant operations.

Major Products

- DeltaV™ Distributed Control System
  - Controller and I/O
  - Advanced Operator Displays
  - DeltaV™ Insight Embedded Loop Monitoring and Tuning Application
  - Entech Advanced Analysis, Modeling and Tuning Tool
  - Advanced Process Control (APC)
  - State Based Control (SBC)
  - Batch Control and Recipe Management
  - Control System Simulation
  - Edge Environment
- DeltaV™ Safety Instrumented Systems
- DeltaV™ Operation Management Software
  - DeltaV™ AgileOps Alarm Management Software
  - DeltaV™ Mimic
  - DeltaV™ Real-Time Scheduling
  - DeltaV™ Discrete Event Simulation
  - DeltaV™ Process Knowledge Management
- DeltaV™ Manufacturing Execution System
- DeltaV™ SCADA



资 料 下 载

AspenTech流程行业资产绩效优化软件

艾默生通过全资收购AspenTech实现自动化与工业软件的深度融合，从而带领高性能工业软件发展，为艾默生和AspenTech用户创造重大价值。

AspenTech资产绩效优化产品广泛应用于优化资产设计、运营和维护，覆盖工厂生命周期至关重要的复杂工业应用。AspenTech将40多年的工艺流程及生产计划过程建模专业知识与大数据机器学习相结合赋能工厂实现自主运营。

AspenTech专门设计的软件平台在整个资产生命周期中提供高回报，实现了知识工作的自动化，并建立起可持续的竞争优势。可以更大限度地延长工厂正常运行时间，提升绩效水平，更快、更安全、更长久、更环保地运行资产。

在艾默生为流程行业客户数字化工厂建设打造的“高度自动化”+“智能模型”的自主运营技术体系中，AspenTech的工业软件产品起到核心作用。

AspenTech Asset Performance Optimization Software for Process Industries

Emerson's full acquisition of AspenTech has enabled a deeper integration of automation and industrial software that will lead the development of high-performance industrial software and create significant value for both Emerson and AspenTech users.

AspenTech Asset Performance Optimization products are used to optimize asset design, operations and maintenance across a wide range of complex industrial applications critical to the plant lifecycle. AspenTech combines more than 40 years of process and production planning expertise in process modeling with big data and machine learning to empower plants to achieve autonomous operations.

AspenTech's specialized software platform ensures substantial returns throughout an asset's lifecycle by automating knowledge-intensive tasks and fostering a sustainable competitive edge. It helps optimize plant uptime, enhances performance, and enables assets to operate more swiftly, securely, prolongedly, and environmentally friendly.

AspenTech's industrial software products play a core role in the “high automation” + “intelligent model” autonomous operation technology system that Emerson has built for process industry customers to construct digital factories.

主要产品
Major Products

能源过程模拟
Process Simulation for Energy

- Aspen HYSYS™
  - Acid Gas Cleaning™
  - Aspen HYSYS Crude™
  - BLOWDOWN™ Technology
  - Relief Sizing™
  - Sulsim Sulfur Recovery™
  - Activated Economics™
  - Activated Energy Analysis™
  - Activated Exchanger Design & Rating™
- Aspen HYSYS Petroleum Refining™
  - Refinery Reactor Models™
- Aspen HYSYS Upstream™
- Aspen HYSYS Dynamics™
  - Activated Dynamics™
- Aspen Hybrid Models™
- Aspen Multi Case™
- Aspen Operator Training™
- Aspen Flare System Analyzer™

化工过程模拟
Process Simulation for Chemicals

- Aspen Adsorption™
- Aspen Chromatography™
- Aspen Custom Modeler™
- Aspen Hybrid Models™
- Aspen Multi Case™
- Aspen Plus™
  - Aspen Polymers™
  - Aspen Properties™
  - Batch Modeling in Aspen Plus™
  - Distillation Modeling in Aspen Plus™
  - Relief Sizing™
  - Solids Modeling™
  - Activated Economics™
  - Activated Energy Analysis™
  - Activated Exchanger Design & Rating™
- Aspen Plus Dynamics™
- Aspen Process Manuals™
- Aspen Flare System Analyzer™

换热器设计与校核
Exchanger Design & Rating

- Aspen Air Cooled Exchanger™
- Aspen Fired Heater™
- Aspen Plate Exchanger™
- Aspen Plate Fin Exchanger™
- Aspen Shell & Tube Exchanger™
- Aspen Shell & Tube Mechanical™
- Aspen Coil Wound Exchanger™

并行前端工程设计
Concurrent FEED

- Aspen Fidelis™
- Aspen Capital Cost Estimator™
- Aspen In-Plant Cost Estimator™
- Aspen Process Economic Analyzer™
- Aspen OptiPlant 3D Layout™
- Aspen OptiRouter™
- Aspen Basic Engineering™



地下科学与工程
Subsurface Science & Engineering

- AspenTech Subsurface Intelligence™ (ASI)
- Aspen Echos™
- Aspen EarthStudy 360™
- Aspen GeoDepth™
- Aspen SeisEarth™
- Aspen Geolog™
- Aspen RMS™
- Aspen SKUA™
- Aspen OpsLink™
- Aspen Tempest™
- Aspen Epos™

能源与公用事业优化
Energy & Utilities Optimization

- Aspen Energy Analyzer™
- AspenTech Strategic Planning for Sustainability Pathways™
- Aspen Utilities Planner™

运营支持
Operations Support

- Aspen OnLine™
- Aspen Simulation Workbook™

先进控制
Advanced Process Control

- Aspen DMC3™
- AVA™ Advisor in Aspen DMC3
- Aspen DMC3 Builder™
- Aspen Inferential Qualities™
- Aspen Nonlinear Controller™
- Aspen Transition Management™
- Aspen Watch Performance Monitor™

动态优化
Dynamic Optimization

- Aspen GDOT™
- AVA™ Advisor in Aspen GDOT

制造执行系统
Manufacturing Execution Systems

- Aspen InfoPlus.21™
- Aspen Production Record Manager™
- aspenONE Process Explorer™
- Aspen Production Execution Manager™
- Aspen Unified Reconciliation and Accounting™
- Aspen Unified Movements™
- Aspen Operations Reconciliation and Accounting™
- Aspen Tank and Operations Manager™

石油供应链
Petroleum Supply Chain

- Aspen Unified PIMS™
- Aspen Unified Scheduling™
- Aspen Unified Multisite™
- AVA™ Advisor in Aspen Unified PIMS
- Aspen Verify for Planning™
- Aspen PIMS-AO™
- Aspen Assay Management™
- Aspen Petroleum Scheduler™
- Aspen Refinery Multi-Blend Optimizer™
- Aspen Petroleum Supply Chain Planner™
- Aspen Collaborative Demand Manager™

供应链管理
Supply Chain Management

- aspenONE™ Supply Chain Management
- Aspen Scheduler Explorer™
- Aspen Collaborative Demand Manager™
- Aspen Supply Chain Planner™
- Aspen Plant Scheduler™ Family
- Aspen Supply Chain Management Insights™

资产绩效管理
Asset Performance Management

- Aspen Mtell™
- Aspen ProMV™
- Aspen Process Pulse™
- Aspen Unscrambler™

工业数据架构
Industrial Data Fabric

- AspenTech Inmation™

数字电网管理
Digital Grid Management

- AspenTech Microgrid Management System™
- AspenTech OSI monarch™
- AspenTech OSI Generation Management System™
- AspenTech OSI Energy Management System™
- AspenTech OSI Advanced Distribution Management System™
- AspenTech OSI Distributed Energy Resource Management System™
- AspenTech Microgrid Management System
- AspenTech OSI CHRONUS Historian™
- AspenTech OSI Continua Pipeline Management™
- AspenTech Cimphony Network Model Management™
- AspenTech Grid Apps™
  - AspenTech Grid Reporter™
  - AspenTech DER Connect™
  - AspenTech Network Maps™
  - AspenTech Resilience Portal™



资 料 下 载

AMS™资产性能管理

由于设备故障造成的意外停机不仅会增加维护费用同时也会影响生产目标，艾默生针对生产设备的属性及关键性可提供多种资产管理和设备状态监测技术，以提高设备可用性和运行安全性。

主要产品

资产监测

AMS™ Optics资产性能平台可汇集、分析和管理多个应用的设备健康数据，根据人员职能推送与其相关的设备预警及性能指标信息。

- 可连接AMS™设备管理软件、AMS™机械设备状态管理系统以Insight设备监测APP等多种数据源，并进行信息存储以用于进一步分析及维护决策
- 提供基于人工智能的可视化和预警工具，以及基于人工智能和机器学习的深度分析技术
- 实现人员协同，并将维护工作与企业设备维护管理系统进行无缝整合

机械设备健康状态管理

- AMS™机械管理系统
  - 一套全面的软件解决方案，通过结合预测维护技术和全面的分析工具，为您的设备提供简洁和准确的机械健康评估，大大简化了故障诊断和分析过程
- 动设备状态分析和监测
  - AMS™ 6500 ATG机械设备在线监测及保护系统，符合API 670标准，具备防爆认证
  - AMS™ 6500机械设备在线监测系统，保护和预测功能集于一身，符合API 670标准
  - AMS™ EZ 1000电涡流测量系统
  - AMS™ 6300数字超速保护系统，保护核心透平设备发生超速事故
  - AMS™ 9420无线振动变送器，对难以达到位置的旋转设备提供精确的振动监测，传感器分体设计适用于各种安装场合
  - AMS™ 9530无线振动变送器依托先进的测量技术，通过自组织的无线网传输完整的振动数据，为操作和维护人员提供了丰富的机械健康信息和维护方向
  - AMS™ 2140机械状态分析仪，新一代便携式振动分析设备
  - AMS™ 2600机械健康专家，便携式24通道振动采集分析系统
  - AMS™ Asset Monitor资产监测器，结合边缘计算优势，通过自动化分析和可操作的报警，提供最新的过程和状态监测结果

仪表阀门设备管理

- AMS™仪表阀门管理软件
  - 简化调试工作，通过实时预测智能进行决策，提高重要生产设备的维护效率、可靠性和性能
- 现场通讯
  - AMS™ Trex设备通讯器，图形化显示，电池寿命长，适用于严苛工况

AMS™ Asset Performance Management

Unscheduled downtime caused by equipment failure eats into both the maintenance budget and production goals. Emerson offers a variety of asset management and condition indicator technologies specific to the nature and criticality of production assets to improve availability and safety.

Major Products

Asset Monitoring

With AMS™ Optics, an asset performance platform for managing enterprise asset health, data is combined from multiple applications into asset-centric information to deliver persona-based alerts and KPIs.

- Connect different data sources like AMS™ Device Manager, AMS™ Machinery Manager, Insight, etc. and store the data for analysis and decision making
- Provide persona-based visualization and notification tools, as well as analytical techniques leveraging artificial intelligence and machine learning
- Enable collaborative engagement and seamlessly integrate maintenance into CMMC

Machinery Health Management

- AMS™ Machinery Works
  - A comprehensive software solution that integrates predictive maintenance technologies with advanced analytics tools. It delivers clear, accurate mechanical health assessments for equipment, significantly streamlining the fault diagnosis and analysis process.
- Machinery Analyzers & Monitors
  - AMS™ 6500 ATG, API 670-compliant protection with prediction capabilities
  - AMS™ EZ 1000 Eddy Current Measurement System
  - AMS™ 6300 Digital Overspeed Protection. Protects critical turbomachinery from overspeed conditions
  - AMS™ 9420 Wireless Vibration Transmitter, providing accurate vibration monitoring in hard-to-reach locations. Its design is suitable for various installations
  - AMS™ 9530 Wireless Vibration Transmitter, an easy-to-deploy vibration sensor that performs prescriptive analytics on vibration data using native software to automatically identify failure modes in rotating equipment
  - AMS™ 2140 Machinery Health Analyzer. Portable vibration for the 21st century
  - AMS™ 2600 Machinery Health Expert. Portable 24-channel vibration analysis
  - AMS™ Asset Monitor, an edge analytical device that provides prediction, protection and process monitoring capabilities

Instrument Valve Equipment Management

- AMS™ Instrument Valve Management Software
  - Streamline your commissioning efforts, make decisions based on real-time predictive intelligence, and improve the maintenance, availability, and performance of key production assets
- Field Communication
  - AMS™ Trex Device Communicator delivering long-life batteries and graphical user interface in a tool built to withstand harsh industrial environments



GUARDIAN™

Guardian数字化运维平台用于满足控制软件和资产的端到端生命周期需求。Guardian数字化体验帮助用户快速获取产品支持、安全地管理订阅、直观地了解系统运行状况，同时提供与生产性能优化类软件和服务的交互。

Guardian能够提供如下帮助：

• 轻松获得产品支持
提供您的团队与艾默生的产品专家的联系渠道，与您的人员协作解决问题，或者通过系统专用修复程序、补丁更新和设备安装包提升运营安全。

• 更大限度地缩短停车时间并优化系统性能
通过定制化可配置的仪表面板，提供系统健康状况的实时提醒，并提供解决措施，从而降低安全、保障和控制流程的风险。

• 简化订阅管理
安全下载并激活软件，自助管理软件和授权，轻松续订或修改订阅内容。

• 拓展运营能力
根据您的具体运营需求，获取用于提升人员效率和优化生产绩效的其他服务和技术的建议。

Guardian是您的个性化风险管理、事件管理和生命周期管理的数字平台，提供系统相关信息，从而实现更好的决策和优先级的洞察。

GUARDIAN™

Guardian is Emerson's digital platform for addressing the end-to-end lifecycle needs of control software and assets. The Guardian digital experience enables users to quickly connect to product support; securely manage subscriptions; get intuitive views into system health; and interact with additional software and services that propel performance.

Emerson's Guardian helps you:

• Easily Access Product Support
Connect your team to Emerson's product experts, who can collaborate with your personnel to resolve issues or enhance operations with automated system-specific hotfixes, patch updates, and device install kits.

• Minimize Downtime & Optimize System Performance
Reduce risks to safety, security and control processes through a personalized, configurable dashboard that delivers real-time intelligence about a system's health – and recommends corrective actions.

• Simplify Subscription Management
Download and activate software safely and securely, manage software and licenses through a self-service license generator, and easily renew or modify subscriptions.

• Expand Operational Capabilities
Obtain recommendations, based on your specific operations, about other services and technologies that can increase workforce efficiency and optimize performance.

Guardian is your personalized digital platform for Risk Management, Incident Management, and Lifecycle Management, which provides relevant, system-specific information that enables better decision making and prioritization insights.



资 料 下 载

能源与输送解决方案

艾默生能源与输送解决方案，为油气田、长输管道及液体库区提供远程数据采集、监控、计量与运营管理解决方案。旗下SCADA系统依托稳健性通信、服务器冗余及系统安全架构，实现远程资产与企业系统集成，并通过开放式数据库架构及通用标准，达成与第三方业务系统的高效信息共享，让远程操作管理更高效。该系统可与艾默生AMS™ Device Manager无缝对接，对HART设备开展前瞻性远程诊断，提前规避故障风险；同时还能与旗下流量计算机，RTU、SmartProcess油气边界应用套件，以及管道泄漏检测、调度管理软件等一起协同管控。助力油气行业用户，在安全运营的前提下有效提升产量或吞吐量。

主要产品

- 计量与控制
  - FB 系列流量计算机及 ROC800
  - ControlWave RTU /PLC
  - DeltaV™ RTU /PLC
  - 批量控制器（DL8000）
  - OpenEnterprise SCADA
  - SmartProcess O&G Application

- 运营及仿真
  - 管道离线仿真软件
  - 管道在线仿真及泄漏检测软件
  - 罐区及码头运营管理软件
  - 罐区及管道一站式管理软件
  - 罐区及管道调度软件

Energy & Transportation Solutions

Emerson's Energy and Transportation Solutions deliver comprehensive remote data acquisition, monitoring, metering, and operational management solutions for oil and gas fields, transmission pipelines, and liquid storage terminals. Built on robust communications, server redundancy, and a secure system architecture, our SCADA system seamlessly integrates remote assets with enterprise systems. By leveraging an open database architecture and industry-standard protocols, it enables highly efficient information sharing with third-party business systems, significantly enhancing remote operations management. The system seamlessly integrates with Emerson's AMS™ Device Manager to perform proactive remote diagnostics on HART-enabled devices, helping to mitigate failure risks before they occur. Furthermore, it operates in complete synergy with Emerson's flow computers, RTUs, SmartProcess™ Oil & Gas applications, as well as pipeline leak detection and scheduling management software to ensure unified control. Ultimately, this empowers oil and gas operators to effectively increase production or throughput while ensuring uncompromising operational safety.

Major Products

- Metering and Control
  - FB Series Flow Computers and ROC800
  - ControlWave RTU /PLC
  - DeltaV RTU /PLC
  - DL8000 Batch Controllers
  - OpenEnterprise SCADA
  - SmartProcess Oil&Gas Application

- Operations and Simulation
  - Pipeline Studio
  - Pipeline Manager
  - Terminal Manager
  - O2C Manager
  - Scheduling Management



资 料 下 载

工业与机器控制

覆盖单机至企业级运营，艾默生一体化自动化平台融合控制、可视化、工业计算、运动控制与SCADA，赋能产线现代化，支撑AI智能运营落地。

主要产品

设计原生，支持AI赋能

- 安全数据采集
- 开放互联
- 高级边缘计算
- 可扩展架构
- 保护现有投资

面向AI赋能运营的工业自动化

- 控制
  - PLC与I/O
- 计算
  - 工业计算机
- 可视化
  - 人机界面 HMI
- 运动
  - 运动控制
- 优化
  - SCADA 与运营软件

Industrial & Machine Control

From individual machines to enterprise-wide operations, Emerson unifies control, visualization, industrial computing, motion, and SCADA in a scalable automation platform that helps organizations modernize with confidence while building a foundation for AI-enabled operations.

Major Products

AI-Ready by Design

- Secure data collection
- Open connectivity
- Advanced edge computing
- Scalable architecture
- Protection of existing investments

Industrial Automation for AI Enablement

- Control
  - PLCs & I/O
- Compute
  - Industrial PCs
- Visualize
  - HMIs
- Move
  - Motion Control
- Optimize
  - SCADA & Operational Software



测试与测量
Test & Measurement

资 料 下 载

艾默生的测试与测量业务（原NI）凭借丰富的软件产品组合、模块化硬件、系统和服务，从实验室到生产线，帮助企业深入解析数据的含义，做出有据可依的业务决策，从而获得更安全、更可靠的产品，并加速研发创新。

我们的自动化测试测量技术广泛应用于半导体和电子、交通运输、商业航空航天、无线通信、院校与科研、能源、工业机械及生命科学等领域。

Emerson's Test & Measurement business (formerly NI), with its comprehensive software portfolio, modular hardware, systems, and services, help from the lab to the manufacturing floor to turn real-world data into insights that drive business decisions for safer, more reliable products, and accelerated innovation.

Our automation test & measurement solutions are widely used in the areas like semiconductor, electronics, transportation, aerospace, wireless communication, academic & research, energy, industrial machinery, and life sciences.

测试系统

主要产品

- PXI
- CompactDAQ
- TestScale
- CompactRIO
- 基于PC的系统

硬件

主要产品

- 数据采集与控制
- 电子测试和仪表
- 无线设计和测试
- 线缆和附件

软件

主要产品

- 编程环境 - LabVIEW
- 应用软件
  - 测试管理 - TestStand
  - 数据管理 - DIAdem
  - 数据记录 - FlexLogger
  - 电路设计 - Multisim™
  - HIL测试 - VeriStand
  - 无线设计 - RFmx
- 测试运行和产品分析软件
  - SystemLink™
  - OptimalPlus GO
- 软件套件
  - LabVIEW+套件
  - HIL仿真及实时测试软件套件
  - 电路设计套件

Test Systems

Major Products

- PXI
- CompactDAQ
- TestScale
- CompactRIO
- PC-based System

Hardware

Major Products

- Data Acquisition and Control
- Electronic Test and Instrumentation
- Wireless Design and Test
- Cables and Accessories

Software

Major Products

- Programming Environments - LabVIEW
- Application Software
  - Test Management - TestStand
  - Data Management - DIAdem
  - Data Logging - FlexLogger
  - Circuit Design - Multisim™
  - HIL Testing - VeriStand
  - Wireless Design - RFmx
- Test Operations and Product Analytics Software
  - SystemLink™
  - OptimalPlus GO
- Software Bundles
  - LabVIEW+Suite
  - HIL and Real-Time Test Software Suite
  - Circuit Design Suite



资 料 下 载

测量方案
Measurement Solutions

严苛的工厂运行需要可靠且精确的测量设备。艾默生可提供经过现场验证的技术，帮助您应对严酷的工况和分析挑战，从而提高工厂性能和效益，最重要的是提高安全性。

The rigorous demands of your process operations require you to have reliable, accurate devices that give you the measurements you need. Emerson delivers field-proven technologies that can handle the toughest conditions or analytical challenges to allow you to maximize the performance, profitability and, most importantly, safety of your applications.

流量测量

主要产品

- 高准™ (Micro Motion™) 科里奥利质量流量计
  - 高精度贸易交接应用
  - 自排空紧凑应用
  - 卫生应用
  - 高压应用
  - 高温应用
  - 低温应用
  - 超小流量应用
  - 压缩天然气应用
  - 液化天然气应用
  - 防腐应用

- 罗斯蒙特™ (Rosemount™) 差压流量
  - 调整型孔板流量计
  - 阿牛巴流量计及一次元件
  - 现场远传指示器
  - 多参数流量变送器
  - 无线流量变送器

- 罗斯蒙特™ (Rosemount™) 涡街流量计
  - 罗斯蒙特™ (Rosemount™) 8600涡街流量计
  - 罗斯蒙特™ (Rosemount™) 8600多变量型 (温度补偿) 涡街流量计
  - 罗斯蒙特™ (Rosemount™) 8800法兰型涡街流量计
  - 罗斯蒙特™ (Rosemount™) 8800缩径型涡街流量计
  - 罗斯蒙特™ (Rosemount™) 8800多变量型 (温压补偿) 涡街流量计
  - 罗斯蒙特™ (Rosemount™) 8800双头涡街流量计
  - 罗斯蒙特™ (Rosemount™) 8800四头涡街流量计

- 罗斯蒙特™ (Rosemount™) 电磁流量计
  - 罗斯蒙特™ (Rosemount™) 8705电磁流量计
  - 罗斯蒙特™ (Rosemount™) 8750W电磁流量计
  - 罗斯蒙特™ (Rosemount™) 8721卫生型电磁流量计
  - 罗斯蒙特™ (Rosemount™) MS 浆液型电磁流量计

- 超声波流量计
  - 罗斯蒙特™ (Rosemount™) 贸易交接型超声波流量计
  - Flexim™外夹式超声波流量计

Flow Measurement

Major Products

- Micro Motion™ Coriolis Flowmeter
  - High Accuracy Custody Transfer Coriolis Flowmeter
  - Compact & Self Draining Coriolis Flowmeter
  - Hygienic Coriolis Flowmeter
  - High Pressure Coriolis Flowmeter
  - High Temperature Coriolis Flowmeter
  - Cryogenic Coriolis Flowmeter
  - Low Flow Coriolis Flowmeter
  - CNG Dispensing Coriolis Flowmeter
  - LNG Coriolis Flowmeter
  - Corrosion Resistant Coriolis Flowmeter

- Rosemount™ DP Flow
  - Orifice Flowmeter
  - Annubar Series Flowmeter and Primary Element
  - Field Remote Indicator
  - SMV Flow Transmitter
  - Wireless Flow Transmitter

- Rosemount™ Vortex Flowmeter
  - Rosemount™ 8600 Vortex Flowmeter
  - Rosemount™ 8600 Multivariable (Temperature Compensation) Vortex Flowmeter
  - Rosemount™ 8800 Flanged Vortex Flowmeter
  - Rosemount™ 8800 Reducer Vortex Flowmeter
  - Rosemount™ 8800 Multivariable (Temperature and Pressure Compensation) Vortex Flowmeter
  - Rosemount™ 8800 Dual Vortex Flowmeter
  - Rosemount™ 8800 Quad Vortex Flowmeter

- Rosemount™ Magnetic Flowmeter
  - Rosemount™ 8705 Magnetic Flowmeter
  - Rosemount™ 8750W Magnetic Flowmeter
  - Rosemount™ 8721 Hygienic Magnetic Flowmeter
  - Rosemount™ MS Slurry Magnetic Flowmeter

- Ultrasonic Flowmeter
  - Rosemount™ Ultrasonic Flowmeter for custody transfer
  - Flexim™ Non-Intrusive Ultrasonic Flowmeter



资 料 下 载

- 流量测量解决方案
  - 水击泄压系统
  - 贸易计量系统
  - 计量系统服务
  - 移动式质量流量计标准表法流量标准装置
  - 智能计量远程诊断专家系统
  - 现场流量仪表核查、校验、移动校准服务
  - 浦东流量实验室流量计国家级检定和CNAS校准服务
- 通球系统
- Roxar™油气开采监测
  - 多相计量
  - 含水分析
  - 永久性井下监测系统

- Flow Measurement Solution
  - Surge Relief System
  - Custody Transfer System (skid)
  - Custody Transfer System Service
  - Mobile Coriolis Master Meter Flow Standard System
  - Intelligent Remote Metrology Diagnostic Expert System
  - Field Flowmeter Flow Audit, Verification, Mobile Calibration Service
  - Pudong FlowLab Flowmeter National-Level Verification and CNAS Calibration Service
- Pigging Solutions
- Roxar™ Subsea/Downhole/Topside & Onshore Monitoring
  - Multiphase Meter
  - Watercut Meter
  - Permanent Downhole Monitoring System

密度和粘度测量

主要产品

- 高准™ (Micro Motion™) 密度计和粘度计
  - 液体密度计
  - 液体粘度计
  - 液体浓度计
  - 气体密度计
  - 气体比重计

Density & Viscosity Measurement

Major Products

- Micro Motion™ Density and Viscosity Measurement
  - Liquid Density Meter
  - Liquid Viscometer
  - Liquid Concentration Meter
  - Gas Density Meter
  - Gas Specific Gravity Meter

压力测量

主要产品

- 罗斯蒙特™ (Rosemount™) 可扩展性智能测量仪表系列
- 罗斯蒙特™ (Rosemount™) 压力变送器
- 罗斯蒙特™ (Rosemount™) 指针式无线压力变送器
- 罗斯蒙特™ (Rosemount™) 无线压力变送器
- 罗斯蒙特™ (Rosemount™) 差压液位变送器和ERS电子远传系统
- 罗斯蒙特™ (Rosemount™) 卫生型压力变送器
- 罗斯蒙特™ (Rosemount™) 仪表阀组
- 罗斯蒙特™ (Rosemount™) 远程膜片密封系统
- 罗斯蒙特™ (Rosemount™) 井下压力传感器

Pressure Measurement

Major Products

- Rosemount™ Scalable Series of Instrumentation
- Rosemount™ Pressure Transmitter
- Rosemount™ Wireless Pressure Gauge
- Rosemount™ Wireless Pressure Transmitter
- Rosemount™ DP Level Transmitter and Rosemount™ Electronic Remote Sensor System
- Rosemount™ Sanitary Pressure Transmitter
- Rosemount™ Manifolds
- Rosemount™ Remote Seal
- Rosemount™ Downhole Pressure Transducer



资 料 下 载

温度测量

主要产品

- 罗斯蒙特™ (Rosemount™) 单点温度变送器
- 罗斯蒙特™ (Rosemount™) 多点高密度温度变送器
- 罗斯蒙特™ (Rosemount™) X-Well非接触式温度变送器
- 罗斯蒙特™ (Rosemount™) 无线温度变送器
- 罗斯蒙特™ (Rosemount™) 井下温度传感器
- 罗斯蒙特™ (Rosemount™) 通用传感器和热套管
- Twisted Square™螺旋式热套管

Temperature Measurement

Major Products

- Rosemount™ Single Point Temperature Transmitter
- Rosemount™ High Density Temperature Transmitter
- Rosemount™ X-well Non-intrusive Technology with Temperature Transmitter
- Rosemount™ Wireless Temperature Thermowell Transmitter
- Rosemount™ Downhole Temperature Sensor
- Rosemount™ Sensor and Thermowell
- Twisted Square™ Thermowell

物位测量

主要产品

- 罗斯蒙特™ (Rosemount™) 非接触式雷达液位计
- 罗斯蒙特™ (Rosemount™) 导波雷达液位计/无线导波雷达液位计
- 罗斯蒙特™ (Rosemount™) 音叉液位开关
- 罗斯蒙特™ (Rosemount™) 固体料位开关

Level Measurement

Major Products

- Rosemount™ Non-contacting Radar
- Rosemount™ Guide Wave Radar/Wireless Guide Wave Radar
- Rosemount™ Point Level Detector
- Rosemount™ Level Switch/Solids Scanner

储罐计量

主要产品

- 罗斯蒙特™ (Rosemount™) 2合1高精度储罐雷达液位计防溢保护
- 罗斯蒙特™ (Rosemount™) 储罐计量系统
- 罗斯蒙特™ (Rosemount™) 系统集成

Tank Gauging

Major Products

- Rosemount™ 2-in-1 Overfill Prevention
- Rosemount™ Tank Gauging System
- Rosemount™ System Hub

腐蚀及侵蚀监测

主要产品

- Permasense超声波腐蚀及侵蚀监测
- Roxar™电阻探头无线腐蚀及含砂侵蚀监测系统

Corrosion and Erosion Monitoring

Major Products

- Permasense Integrity Continuous Corrosion Monitoring System
- Roxar™ CorrLog / SandLog Wireless System

无线声波及离散

主要产品

- 罗斯蒙特™ (Rosemount™) 708无线声波变送器
- 罗斯蒙特™ (Rosemount™) 702无线离散变送器

Wireless Acoustic & Discrete

Major Products

- Rosemount™ 708 Wireless Acoustic Transmitter
- Rosemount™ 702 Wireless Discrete Transmitter



资 料 下 载

过程分析

艾默生的罗斯蒙特™ (Rosemount™) 过程分析产品包括用以分析pH值、ORP氧化还原电位、电导率、溶解氧、臭氧、氯和浊度的水质分析仪表和用以进行过程分析、排放监测、燃烧分析以及锅炉控制的气体分析仪器，广泛应用于化工、造纸、水和废水处理、炼油、制药、食品饮料、冶金、纺织、电力、汽车工业和半导体行业。

主要产品

- 罗斯蒙特™ (Rosemount™) 在线氧量分析仪
- 罗斯蒙特™ (Rosemount™) pH/ORP分析仪
- 罗斯蒙特™ (Rosemount™) 电导率分析仪
- 罗斯蒙特™ (Rosemount™) 溶解氧分析仪
- 罗斯蒙特™ (Rosemount™) 氯分析仪
- 罗斯蒙特™ (Rosemount™) 臭氧分析仪
- 罗斯蒙特™ (Rosemount™) 浊度计
- 罗斯蒙特™ (Rosemount™) 硅表
- 罗斯蒙特™ (Rosemount™) 钠表
- 罗斯蒙特™ (Rosemount™) 磷表
- 罗斯蒙特™ (Rosemount™) 联氨
- 罗斯蒙特™ (Rosemount™) 氧化锆氧量分析仪
- 罗斯蒙特™ (Rosemount™) 多组份气体分析仪：
  - 红外分析仪
  - 紫外分析仪
  - 热导式分析仪
  - 顺磁氧分析仪
  - 电化学氧分析仪
  - 离子火焰分析仪
  - 化学荧光法分析仪
- 罗斯蒙特™ (Rosemount™) 量子级联激光分析仪
- 罗斯蒙特™ (Rosemount™) 工业气相色谱仪
- 罗斯蒙特™ (Rosemount™) 烟气排放连续监测系统
- 罗斯蒙特™ (Rosemount™) 烟尘浊度计
- 罗斯蒙特™ (Rosemount™) 挥发性有机物(VOCs)在线监测系统

火焰及有毒有害气体探测

我们的火焰及有毒有害气体探测产品在严酷工况中具有优异的表现，确保工厂运行及人员的安全。

主要产品

- 罗斯蒙特™ (Rosemount™) 气体探测器
  - 点式可燃/毒气气体探测器
  - 开路式可燃/毒气气体探测器
  - 超声波气体泄漏探测器
- 罗斯蒙特™ (Rosemount™) 无线有毒气体探测器
- 罗斯蒙特™ (Rosemount™) 火焰探测器

Process Analysis

Emerson's Rosemount™ analytical products provide liquid analysis for pH value, ORP (oxidation reduction potential), conductivity, dissolved oxygen, ozone, chlorine and turbidity; gas analysis for discharge monitoring, combustion and boiler control. These products are widely used in the chemical, paper, water and wastewater treatment, oil refining, pharmaceuticals, food and beverage, metallurgy, textile, power, auto and semiconductor industries.

Major Products

- Rosemount™ in Situ Oxygen Analyzer
- Rosemount™ pH / ORP Analyzer
- Rosemount™ Conductivity Analyzer
- Rosemount™ Dissolved Oxygen Analyzer
- Rosemount™ Chlorine Analyzer
- Rosemount™ Ozone Analyzer
- Rosemount™ Turbidity Analyzer
- Rosemount™ Silicon
- Rosemount™ Sodium
- Rosemount™ Phosphate
- Rosemount™ Hydrazine Analyzer
- Rosemount™ Zirconium Oxide Analyzer
- Rosemount™ Multi-Component Gas Analyzer
  - Infrared Analyzer
  - Ultraviolet Analyzer
  - Thermal Conductivity Analyzer
  - Paramagnetic
  - Electrical Chemical Oxygen Analyzer
  - Process Total Hydrocarbon Analyzer Module
  - Chemiluminescence NO/NOx Analyzer Module
- Rosemount™ Quantum Cascade Laser Analyzer
- Rosemount™ Gas Chromatography Analyzer
- Rosemount™ Continuous Emissions Monitoring System
- Rosemount™ Opacity
- Rosemount™ Volatile Organic Compounds Online Monitoring System

Flame & Gas Detection

Our flame and gas detection products are designed to excel under the toughest conditions to help you streamline day-to-day operations and more importantly, keep your people safe.

Major Products

- Rosemount™ Gas Detector
  - Point Gas Detectors and Sensors
  - Open Path Gas Detectors
  - Incus Ultrasonic Gas Leak Detector
- Rosemount™ Wireless Toxic Gas Detector
- Rosemount™ Flame Detector



船用系统

为了对您船上的状况了如指掌，测量流量、压力、温度和液位，以及分析实时数据结果等至关重要。通过这些信息，您可以在过程变化影响设备性能和造成停机之前采取纠正措施。

主要产品

- 雷达液位计
- 液位变送器
- 电液/液压执行器
- 燃料管理
- 船用储罐温度监控
- 船用储罐气体压力测量
- 船舶吃水、倾斜和平衡监测

工业无线技术

无线架构作为安全、集成的工业网络的一部分，能够连续可靠地提供之前因成本或安全因素而无法获取的过程监测数据，从而提升工厂安全、效率和环保水平。艾默生的智能无线技术采用WirelessHART®通讯协议，可与原有有线结构兼容，也能方便地增加新的监测及控制应用。

主要产品

- 无线网络 (无线工厂网络/无线现场网络)
  - 无线接入点
  - 无线网关
  - 智能天线
  - 现场链接
- 无线分析应用
  - Plantweb Insight™网络管理应用
  - Plantweb Insight™设备监测APP
- 无线电池
- 无线适配器
- 无线人员定位
- 无线传感器
  - 无线压力、温度、流量、液位及储罐监测
  - 无线腐蚀及侵蚀监测
  - 无线火焰及气体探测
  - 无线声波及离散监测
  - 无线振动监测
  - 无线阀位监测

Marine

To achieve complete overview of any condition on board your vessel, it is vital to measure affecting parameters such as flow, pressure, temperature and level and analyze the real-time data results. This information allows you taking action before changes affect equipment performance and cause downtime.

Major Products

- Radar Based Level
- Pressure Based Level
- Hydraulic / Electro-Hydraulic Actuator
- Fuel Management
- Temperature Monitoring in marine tanks
- Vapour Pressure
- Draft, Trim and Heel Monitoring

Industrial Wireless Technology

As part of a secure, integrated industrial network, wireless infrastructure provides reliable, continuous data that improves safety, efficiency and the environment through monitoring of process measurement points that previously were too costly or unsafe to access. Wireless connectivity via WirelessHART® communication can provide additional capability benefiting both existing wired and new monitoring and control applications.

Major Products

- Wireless Network (Wireless Plant Network/ Wireless Field Network)
  - Wireless Access Point
  - Wireless Gateway
  - Smart Antenna
  - Field Link
- Wireless Analytics
  - Plantweb Insight™ Network Management Application
  - Plantweb Insight™
- Wireless Power
- Wireless Adapter
- Wireless Location
- Wireless Sensor
  - Wireless Pressure, Temperature, Flow, Level Measurement and Tank Gauging
  - Wireless Corrosion and Erosion Monitoring
  - Wireless Flame and Gas Detection
  - Wireless Acoustic & Discrete
  - Wireless Vibration Transmitters
  - Wireless Position Monitors



最终控制
Final Control

调节阀

调节阀是控制回路中唯一能够真正动作以调节工艺过程的设备，艾默生调节阀及定位器凭借其先进的技术，在石化、炼油、陆上油气、海上平台、煤化工、电力、冶金、造纸、制药、电子等工业行业的过程控制工艺过程中提供更好的控制性能和安全性。同时我们还提供核安全级阀门、节流阀、蒸汽调节阀、减温减压器及ValveLink软件。主要品牌包括费希尔™ (Fisher™)、Baumann、GULDE、Sempell™、Vonk™和Yarway™。

主要产品

- 直通阀
- 角型阀
- 三通阀
- 球阀
- 蝶型调节阀
- 偏心旋转阀
- 严酷工况球阀
- 蒸汽减温减压器
- 智能阀门定位器 (DVC)
- ValveLink 软件
- 核安全级阀门
- 闸阀
- 截止阀
- 止回阀
- Baumann调节阀
- GULDE调节阀
- Sempell™阀门
- Vonk™节流阀
- AMS™ ValveLink 软件

资 料 下 载

Control Valves

Since control valves are the only devices in the control loop that actually move to adjust the process, with Emerson's advanced technology, our control valves and instruments enable the performance and safety of various process industries, such as petrochemical, refinery, onshore oil and gas, offshore, coal chemical, power, metal&mining, pulp&paper, pharmaceutical and electronic. We also provide Nuclear power valves, choke valves, steam conditioning valve, desuperheater and ValveLink software. Our globally recognized brands including Fisher™, Baumann, GULDE, Sempell™, Vonk™ and Yarway™.

Major Products

- Globe Valve
- Angle Valve
- Three-way Valve
- Ball Valve
- High-performance Butterfly Valve
- Eccentric Plug Valve
- Severe Service Ball Valve
- Steam Conditioning Valve and Desuperheater
- Digital Valve Controller (DVC)
- ValveLink Software
- Nuclear power valves
- Gate Valve
- Globe Valve
- Check Valve
- Baumann Control Valve
- GULDE Control Valve
- Sempell™ Control Valve
- Vonk™ Choke Valve
- AMS™ ValveLink Software

关断阀

艾默生拥有丰富的、经过实践检验的关断阀产品组合，为各类过程控制应用中的开关、关断、分流、合流、换向工况提供高效的安全运行。主要品牌包括艾易维™ (AEV™)、克拉克森™ (Clarkson™)、基士敦™ (Keystone™)、KTM™、纽泰克™ (Neotecha™) 和凡尼沙™ (Vanessa™)。

主要产品

- 蝶阀
- 三偏心阀
- 球阀
- 刀闸阀
- 衬里阀
- 浆液阀和关断阀
- 取样阀
- 自动控制阀门解决方案

资 料 下 载

Isolation Valves

Emerson has an extensive isolation valve portfolio designed and tested to provide on-off, isolation, converge, mixing, divert services in high-efficiency and safe operation for process applications. Our globally recognized brands including AEV™, Clarkson™, Keystone™, KTM™, Neotecha™ and Vanessa™.

Major Products

- Butterfly Valve
- Triple Offset Valve
- Ball Valve
- Knife Gate Valve
- Lined Valves
- Slurry & Isolation Valve
- Sampling Valve
- Automated Valve Solutions



压力管理

艾默生提供一体化压力管理解决方案，旗下品牌包括费希尔™(Fisher™)、安德森格林伍德™ (Anderson Greenwood™)、Enardo™、久安™(Jeon™)、塔塔里尼™(Tartarini™)、克罗斯比™(Crosby™)、Cash Valve™和Yarway™，服务于航空航天、汽车、炼油、化工、石化、电力、船舶、食品饮料、生命科学、半导体和实验室等多个领域。我们还为天然气输送公司、城市燃气网络和天然气发电厂提供定制化撬装系统解决方案。

主要产品

- 工业压力控制解决方案
  - 减压阀
  - 背压阀
  - 紧急切断阀
  - 蒸发气回收阀
  - 阻火器
  - 紧急泄放阀
  - 高压截止阀
  - 泄压阀
  - 深冷调压阀
  - 氮封阀
  - 呼吸阀
  - 取样孔
  - 排污阀
  - 疏水阀
  - 自动再循环控制阀/最小流量阀 (ARC阀)

资 料 下 载

- 天然气调压
  - 天然气调压器、切断阀、调节阀
  - 燃气调压计量撬装系统
  - 燃气电厂撬装系统集成
  - 天然气长输管线压力控制系统
  - 燃气净化、过滤、分离
  - 压缩天然气减压
  - 燃气加臭
  - 燃气管网的远程监控
  - 工业调压系统

资 料 下 载

- 安全阀
  - 弹簧式安全阀
  - 先导式安全阀
  - 锅炉安全阀/省煤器安全阀
  - 爆破片
  - 安全选择阀
  - 安全阀数字化监测
  - 小型热泄放阀
  - 压力API 10K及以上的海上工况泄放阀
  - 深冷储罐用安全阀
  - 用于多杂质或超粘工况的安全阀

资 料 下 载

Pressure Management

Emerson offers comprehensive pressure management as well as tank safety solutions with brands of Fisher™, Anderson Greenwood™, Enardo™, Jeon™, Tartarini™, Crosby™, Cash Valve™ and Yarway™ to aerospace, vehicle, refining, chemical, petrochemical, power, marine, food & beverage, life science, semiconductor, laboratory and many more industries. We also provide customized skid based solutions to natural gas transmission companies, city gas networks, and to gas-based power plants.

Major Products

- Industrial Pressure Control Solutions
  - Pressure Reducing Regulator
  - Backpressure Regulator
  - Slam Shut Valve
  - Vapor Recovery Regulator
  - Flame Arrestor
  - Tank Vents
  - Welbond Valves
  - Pressure Relief Regulator
  - Cryogenic Regulator
  - Tank Blanketing Regulator
  - Pressure and Vacuum Relief Valve
  - Hatch
  - Blow-off/Blow Down Valves
  - Steam Trap
  - Automatic Recirculation Control (ARC) Valve

- Natural Gas Pressure Regulation
  - Pressure Regulator, Cut-Off Valve, Control Valve
  - Pressure Reducing, Metering and Skid System
  - Integrated System for Gas-based Power Plant
  - Natural Gas Transmission Pipeline Pressure Control System
  - Gas Conditioning, Filtration, and Separation
  - CNG Decompression
  - Gas Odorization
  - Remote Monitoring and Control of Gas Networks
  - Industrial Engineering System

- Pressure Relief Valve
  - Spring Operated Valve
  - Pilot Operated Valve
  - Boiler Safety Valve/Economizer Safety Valve
  - Rupture Disc
  - Safety Selector Valve
  - Pressure Relief Valve Monitoring
  - Thermal Relief Valve
  - Pressure Relief Application for API 10K and beyond in Offshore Service
  - Pressure Relief Application for Cryogenic Tank Application
  - Pressure Relief Application for Dirty or Extra-Waxy Media



执行机构

艾默生提供执行机构领域前沿的气动、液压、电动技术，以及带有NetWork Master、控制附件和软件的阀门操作系统™解决方案。主要品牌包括Bettis™、Biffi™、EL-O-MATIC™、Shafer™和Hytork™。

主要产品

- 气动执行机构
- 电动执行机构
- 气液联动执行机构
- 海底执行机构
- 电子破管检测系统
- 液压执行机构
- 阀门操作系统
- 电液联动执行机构
- 阀门监控系统

资 料 下 载

Actuators

Emerson provides market-leading pneumatic, hydraulic, electric actuation technologies and Valve Operating Systems™ solutions with Network Masters, Controls and Software. Our global recognized brands including Bettis™, Biffi™, EL-O-MATIC™, Shafer™ and Hytork™.

Major Products

- Pneumatic Actuator
- Electric Actuator
- Gas-over-Oil Actuator
- Subsea Actuator
- Electric Line Break System
- Hydraulic Actuator
- Valve Operating Systems
- Elec-Hydro Actuator
- Valve Monitoring Device

流体及运动控制

在工业与工厂自动化及各大新质生产力行业加速提质增效的当下，“更可靠、更灵活、更易维护”的现场设备，正成为工厂稳定运行与数字化升级的关键支点。围绕流体控制、气动自动化、装配自动化、精密压力控制，以及阀门位置感应与离散阀门控制等核心需求，艾默生以世格™（ASCO™）、安沃驰™（AVENTICS™）、欧福格™（AFAG™）、TESCOM™、TopWorx™五大品牌，构建覆盖多场景的一体化流体与运动解决方案组合，帮助用户在安全、效率与可持续之间找到更优平衡。

主要产品

- 流体控制
  - 电磁阀
  - 微型阀
  - GO Switches位置开关
  - 离散阀门控制器/限位开关
  - 气控阀
  - 气源处理产品
- 运动控制
  - 阀岛及方向控制阀
  - 比例阀
  - 气动系统
  - 气缸及执行元件
  - 机械安全
  - 给料及传输自动化系统
- 精密流体控制
  - 高压自力式阀
  - PID控制器
  - 阀门
  - 压力控制系统

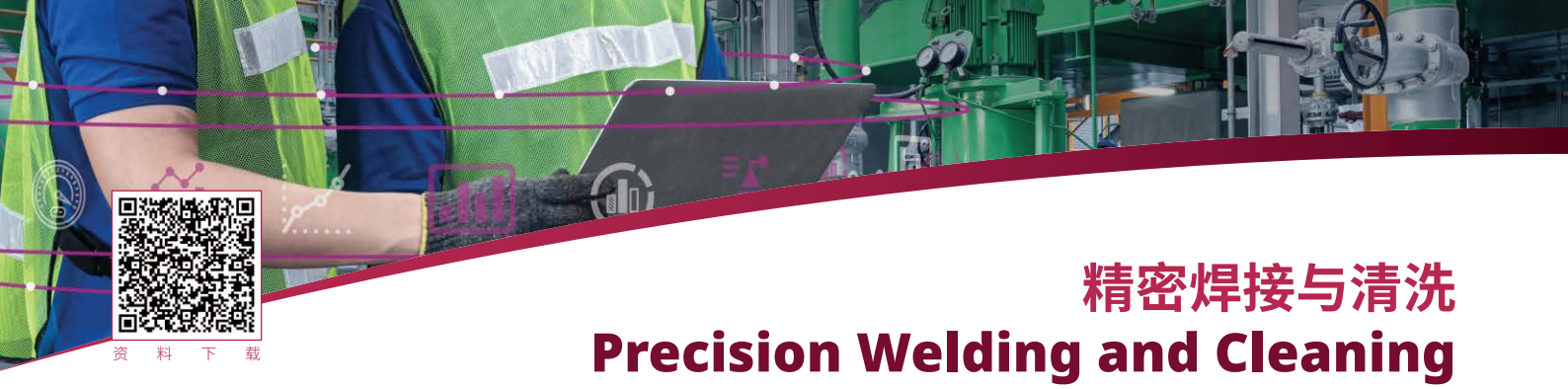
资 料 下 载

Fluid & Motion Control

As industrial and factory automation sectors, alongside industries spearheading the development of new quality productive forces, accelerate their pursuit of higher quality and efficiency, field devices that are more reliable, flexible, and easier to maintain are emerging as the critical foundation for stable plant operations and digital upgrades. Addressing core industry demands for fluid control, pneumatic automation, assembly automation, precision pressure control, as well as valve position sensing and discrete valve control, Emerson leverages its brands - ASCO™, AVENTICS™, AFAG™, TESCOM™, and TopWorx™ - to deliver a comprehensive, integrated portfolio of fluid and motion solutions across diverse application scenarios. This empowers customers to strike an optimal balance between safety, efficiency, and sustainability.

Major Products

- Fluid Control
  - Solenoid Valves
  - Miniature Valves
  - GO Switches Position Switches
  - Discrete Valve Controllers / Limit Switches
  - Air Operated Valves
  - Air Preparation Units
- Motion Control
  - Valve Terminals & Directional Control Valves
  - Cylinders & Actuators
  - Machine Safety
  - Feeding and Transfer Automation Systems
  - Proportional Valves
  - Pneumatic Systems
- Precision Fluid Control
  - High-pressure Regulator
  - PID Controller
  - Valves
  - Pressure Control System



资 料 下 载

精密焊接与清洗
Precision Welding and Cleaning

艾默生提供一体化精密焊接与清洗产品解决方案，服务于汽车部件、锂电池、医疗设备及耗材、纸尿裤、口罩、包装、手机等各类塑料及金属等领域，旗下品牌有：必能信™（Branson™）。

主要产品

- 精密清洗
  - 超声波油脂清洗
  - 超声波水剂清洗
  - 超声波液体处理

- 金属焊接
  - 超声波线束焊接
  - 超声波管道密封
  - 超声波端子焊接
  - 超声波点焊

- 塑料焊接
  - 超声波焊接
  - 振动摩擦焊接
  - 清洁振动摩擦焊接
  - 激光焊接
  - 红外焊接
  - 旋转焊接
  - 热铆焊接
  - 热板焊接

Emerson provides integrated precision welding and cleaning solutions, serving diverse plastic and metal applications across industries including automotive components, lithium-ion batteries, medical devices and consumables, diapers and hygiene products, face masks, packaging, and smartphones. These industry-leading solutions are powered by our signature brand, Branson™.

Major Products

- Precision Cleaning
  - Ultrasonic Degreasing
  - Ultrasonic Aqueous Cleaning
  - Ultrasonic Liquid Processing

- Metal Welding
  - Ultrasonic Wire Harness Welding
  - Ultrasonic Tube Sealing
  - Ultrasonic Terminal Welding
  - Ultrasonic Spot Welding

- Plastic Welding
  - Ultrasonic Welding
  - Vibration Friction Welding
  - Clean Vibration Welding
  - Laser Welding
  - Infrared Welding
  - Spin Welding
  - Hot Staking
  - Hot Plate Welding



电气产品及照明
Electrical Products & Lighting

当工厂存在易燃气体和蒸汽时，危险场所需要使用能够适当防范受热点火或火花点火等危险情况的电气产品。确保工业加工环境中的安全性和产能，需要实现可靠的连接和控制以便为人员和设备提供保护。

主要产品

- 防爆灯具
- 防爆接线箱
- 防爆操作柱
- 防爆配电盘
- 工业伴热

With the presence of flammable gases and vapors, hazardous locations demand electrical products engineered to provide proper protection from dangers like heat or spark-induced ignition. Safety and productivity in industrial processing environments demand reliable connectivity and control to protect people and equipment.

Major Products

- Explosion-proof Lighting
- Explosion-proof Junction Boxes
- Explosion-proof Control Stations
- Explosion-proof Distribution Panels
- Industrial Heat Tracing



资 料 下 载

专业工具
Professional Tools

艾默生专业工具为机械、电力、管道施工及工业基建提供范围广范性能可靠的专业工具解决方案。我们的旗下品牌包括美国里奇™ (RIDGID™)、格林利™ (Greenlee™) 和德国柯劳克™ (Klauke™)，致力于为专业人士提供创新、完善、值得信赖的工具和技术。

1923年，里奇 (RIDGID) 发明了现代管钳，彻底改变了管道施工行业。今天，里奇 (RIDGID) 继续在全球范围内创新，提供行业先进的产品，确保专业人士可以高效可靠地完成工作。

自1862年以来，格林利 (Greenlee) 一直通过提供创新的产品和解决方案来提升行业标准，不断提高作业的效率和安全性，以满足专业人士的需求。从钻孔、弯曲、拉线到切割、压接和测试电缆，格林利 (Greenlee) 都是您值得信赖的品牌。

柯劳克 (Klauke) 成立于1879年，以其高质量的电气连接技术和压接、切割及冲孔工具而闻名于世。147年来，柯劳克 (Klauke) 一直为多样化的高科技和新兴行业提供特殊用途的解决方案。

主要产品

- 管材加工
  - 管钳
  - 套丝机
  - 切割机
  - 弯管器
  - 干切锯
  - 滚沟机
  - 压力测试泵
- 地下管线技术
  - 管线定位仪
  - 内窥镜
  - 疏通机
  - 线缆故障检测仪
- 液压和连接系统
  - 压接工具
  - 管割刀
  - 弯管器
- 软件和应用程序
  - 管线定位仪
  - 内窥镜
- 弯曲
  - 电动弯管器
  - 电动液压开孔器套装
- 拉线
  - 牵引机
  - 穿线器
- 线缆施工
  - 通用剥皮工具
  - 高压报警器
  - 个人防护电压检测器
- 电池液压工具
  - 电动液压压接
  - 电动液压剪切
  - 电池驱动式液压泵
  - 绝缘液压电动工具
- 电气压接和切割
  - 机械式压接
  - 手动液压压接
  - 机械式剪切
  - 手动液压剪切
- 电气连接系统
  - 压接模具
  - 接线端子

Emerson's Professional Tools business offers the broad portfolio of reliable tools and technologies for professionals working in mechanical, electrical, plumbing and industrial infrastructure trades. With unparalleled expertise from RIDGID™, Greenlee™ and Klauke™, we deliver innovative and trusted products that provide dependable performance to the professionals worldwide.

In 1923, RIDGID revolutionized the plumbing industry with the invention of the modern pipe wrench; today, RIDGID continues to innovate around the world with industry-leading products that professionals trust to complete jobs efficiently and reliably.

Since 1862, Greenlee has been elevating the industry standards through delivering innovative products and solutions to drive efficiencies and improve safety to meet the demands and needs of the professional. From holemaking, bending, and cable pulling to cutting, crimping and testing cable, Greenlee is the name tradespeople depend on.

Klauke, established in 1879, is world-renowned for its high-quality, electrical connection technology and tools for crimping, cutting and punching. For over 147 years, Klauke has offered special-purpose solutions for the most diverse high-tech and emerging sectors.

Major Products

- Pipe processing
  - Pipe Wrenches
  - Threading
  - Cut-off Machines
  - Pipe Benders
  - Dry Cut Saws
  - Grooving Machines
  - Pressure Test Pumps
- Underground Utility Technology
  - Utility Locators
  - Inspection Cameras
  - Drain Cleaning Machines
  - Cable Fault Locators
- Hydraulic and Connection Systems
  - Crimping Tools
  - Pipe Cutters
  - Pipe Benders
- Software and Applications
  - Utility Locator
  - Inspection Camera
- Bending
  - Electric Pipe Benders
  - Power Hydraulic Knockout Sets
- Wire Pulling
  - Cable Pullers
  - Wire Pulling Rods
- Cable Installation
  - Universal Cable Strippers
  - High-Voltage Proximity Alarms
  - Personal Safety Voltage Detectors
- Battery-Powered Hydraulic Tools
  - Battery-Powered Hydraulic Crimpers
  - Battery-Powered Hydraulic Cutters
  - Battery-Powered Hydraulic Pumps
  - Insulated Battery-Powered Hydraulic Tools
- Electrical Crimping and Cutting
  - Mechanical Crimpers
  - Manual Hydraulic Crimpers
  - Mechanical Cutters
  - Manual Hydraulic Cutters
- Electrical Connection Systems
  - Crimping Dies
  - Electrical Terminals



服务与咨询
Services & Consulting

长期服务协议

通过预测性诊断、多样化控制、过程和资产优化，确保工厂按时开车、防止过程意外停车、缩短计划停车检修时间，从而延长工厂生命周期。

- 安装、开车和调试
- 定期的现场设备维护
- 快速现场维修
- 故障诊断
- 快速停车检修
- 过程优化
- 设备和系统升级
- 应用咨询

Long-term Service Agreement

Predictive diagnostics, variability control, process and asset optimization allow you to startup early, eliminate the unscheduled downtime, realize fast turnarounds and increase the productive life of the plant.

- Installation, startup, commissioning
- Regular field equipment maintenance
- Quick field maintenance
- Malfunction diagnosis
- Fast shutdowns / turnarounds / outages
- Process optimization
- Equipment & system upgrading
- Application consultation

大修服务

在艾默生全生命周期服务中，尤为注重在企业繁忙的大检修中提供自动化产品一揽子服务和项目管理服务，采用经验证的艾默生大修7步法来帮助客户确定大修范围、精确地制定计划并按预算按进度帮助客户在大修中完成检修、整改、优化等工作，并为下一周期企业的稳定运行提供保障。具体包括如下内容:

- 范围广泛的现场调研、故障解决
- 自控系统(DCS、SIS)的升级改造及软硬件维护
- 建立、优化AMS资产管理平台
- 提供企业控制系统的高级解决方案如：灾难备份系统、报警管理系统
- 常规仪表、FF仪表/网段、无线仪表/网络的诊断及维护
- 新增的重要设备的监控方案
- 涉及企业利润的关键流量计的现场核查及返厂标定及修复
- 费希尔™ (Fisher™) 阀门诊断及达到出厂要求的阀门大修流程
- 机械设备健康分析诊断服务
- 撬装系统的全面维护
- 根据企业运行情况制定合理的备品备件方案
- 大修管家进行全面协调及综合执行

Shutdowns / Turnarounds / Outages

As part of life cycle services, Emerson's depth and breadth of service and product offerings uniquely position us to partner with customers through the entire timeline of your turnaround process. Our proven 7-step process helps customers scope, plan, and streamline execution of your turnarounds on schedule and within budget for more reliable operation. The turnaround service includes:

- Comprehensive site walk down and problem solving
- Automatic control system (DCS, SIS) upgrade and maintenance of software and hardware
- Establish and optimize the AMS Suite platform
- Advanced solutions for control system solutions: disaster backup system and alarm management system
- Diagnose and maintenance for HART device, FF device/segment, wireless instrument/network
- Monitoring solution for additional critical assets
- Onsite check and factory calibration or repair for margin critical flowmeters
- Fisher valve diagnostic and proven process for valve repair
- Machinery health monitoring and diagnose
- Comprehensive maintenance for skid systems
- Appropriate parts and components solution based on specific operation status
- STO Manager for integrated coordination and execution



远程专家服务

工业物联网使工厂能够在部署复杂技术以提高运营绩效时，从其设备资产和过程中生成前所未有的大量数据。但是，读懂这些数据以实现真正的业务改进却成为一个越来越大的挑战。雇佣专门从事增值分析的专家代价高昂，要把他们长久留在公司则更加困难。技术在不断发展，然而工厂却没有足够的能力来实现技术的全部潜能。

艾默生Connected Services远程专家服务可以解决这一问题。艾默生专家利用工业物联网对用户工厂的设备和过程状况进行持续的远程监测和分析评估，为客户提供指导意见，从而帮助客户提高运营效率，避免意外停机。艾默生远程专家服务运用云平台和数据分析工具为客户提供安全、可扩展的云应用环境。

目前艾默生的远程专家服务包括6个内容:

- 调节阀远程专家服务
- 蒸汽疏水阀远程专家服务
- DeltaV™系统远程专家服务
- 机械设备远程专家服务
- 智能计量远程专家服务
- 腐蚀监测远程专家服务

Connected Services

The Industrial Internet of Things is enabling plants to generate unprecedented amounts of data from their assets and processes as they deploy complex technologies aimed at improving operational performance. But making sense of that data to drive real improvement is a growing challenge. It's costly to develop dedicated experts who solely focus on value-added analysis – and even tougher to retain them. As technology continues to expand, the result is a widening gap between a technology's capability and a plant's ability to fully realize that capability.

Emerson Connected Services offers remote, continuous assessment of a plant's equipment and processes by Emerson experts to empower customers with the information needed to improve efficiency and avoid unplanned downtime. Emerson Connected Services utilize cloud services and data analytic tools that provide a scalable and secure cloud application environment.

- Control Valve Connected Services
- Steam Trap Connected Services
- DeltaV System Health Monitoring Connected Services
- Machinery Vibration Analysis Connected Services
- Mass Flowmeter Metrology Diagnostic System Connected Services
- Corrosion/Erosion Connected Services

先进的流量标定中心

位于上海浦东和南京的高级流量中心拥有全国先进的流量标定站。

高准™ (Micro Motion™) 质量流量计标定站
标定站的主要功能是用来标定在生产线上或维护后的高准 (Micro Motion) 质量流量计，其标定范围可达到420吨/小时，装置不确定度为0.033%。

高精度的流量标定是流量仪表业务成功的关键。在发货前，我们销售的每一台质量流量计都要经过严格的标定。

高级流量中心的质量流量标定装置获得了国家市场监管总局颁发的"专项计量授权证书"及CNAS的认可。同时标定中心还具备对涡街和电磁流量计进行标定的能力。

通过对返回的流量计进行标定，帮助我们更客观及时地得出在维修和现场检修中所遇到问题的技术结论，从而保证我们售后服务的质量和响应速度。

Advanced Flow Calibration Center

The Shanghai Pudong and Nanjing-based super flow center has the country's best flow calibration station.

Micro Motion™ Mass Flowmeter Calibration Center
The station's main function is to calibrate the Micro Motion mass flowmeters on the production line or after maintenance. The calibration standard can reach 420 ton per hour and the system uncertainty is 0.033%.

High accuracy of the flow calibration is the key to flowmeter business. Every mass flowmeter we sold is strictly calibrated to meet the specifications before the delivery.

The super flow center has received the State Administration for Market Regulation's "Certificate for Metrological Authorization for Special Items", and accreditation from the China National Accreditation Service for Conformity Assessment (CNAS). Meanwhile, it is also capable to calibrate the vortex and magnetic flowmeters.

Through the re-calibration of the returned flowmeters, it will allow us to draw a more objective technical conclusion with regards to the problems faced during maintenance and on-site servicing. This will thus ensure the quality of our after sales services and response time.



培训服务

技术精湛的人员总能先人一步发现需求，他们可以解决棘手的问题，让工厂平稳运转。因此，培训是实现工厂利用率、可持续性和卓越运营的基础。

无论您的团队是要配置和标定阀门、预测机械故障还是要制定控制策略，艾默生培训服务都能为您提供相应的课程。还有特别为新员工开发的速成课程，以使其更快地胜任工作。艾默生积累了多年流程工业的自动化应用经验，可根据企业实际情况，量身定做符合企业人才发展目标的工厂级自动化培训课程。

对您自己的团队进行投资将帮助您:

- 培训并留住高素质的团队成员
- 学习最佳实践并实现赢利目标
- 针对实际挑战进行实践性的学习和培训

传统现场培训

学员可以在艾默生区域培训中心或您的工厂接受培训。

远程虚拟学习

教员在艾默生公司提供远程学习课程,而学员则在自己本地与教员、设备和其他学员实时互动。

在线学习

如果选择在线学习，学员将根据自己的计划表，按照自己的节奏进行网上学习，无需前往课堂现场。学习管理系统（LMS）监控其实践性学习进度。

Educational Services

Skilled personnel anticipate needs; they solve tough problems; they make an operation run smoothly. That's why training is the cornerstone of maximum availability, sustainability, and operational excellence at your facility.

Whether your team must configure and calibrate valves, predict machinery faults, or develop a control strategy, Emerson Educational Services has the coursework to prepare your team. An accelerated boot camp is also developed especially for your new recruits. With many years' experiences of automation applications in process industry, Emerson provides custom- ized automation training courses according to end users' situation in order to meet customer's human resource development expectation.

Investing in your team will help you to:

- Train and keep high-quality team members
- Learn best practices to meet profitability goals
- Choose hands-on learning and train for real-life challenges

Traditional On-site Training

On-site Traditional Courses can be taken at an Emerson regional training center, or in your facility.

Virtual Learning

An instructor, based at an Emerson facility, leads virtual learning classes while students in their own locations interact with instructors, the equipment, and other students in real-time.

E-Learning

In an E-Learning setting, students learn at their own pace, on their own schedule, online with no travel required. A Learning Management System (LMS) monitors their hands-on learning progress.



智能运维和优化操作

在企业的全生命周期中，运营阶段是企业产生效益的关键阶段。面对愈发激烈的市场竞争环境和国内劳动力市场的现状，企业如何在运营阶段控制运营成本，提升生产效率成为了企业盈利乃至生存的重中之重。艾默生的“智能运维和优化操作”服务是一项综合性咨询服务，旨在依据企业的实际情况，通过结合艾默生各类先进解决方案，助力企业打造智能运维体系，实现智能报警、提前预测，从而进一步优化生产维护操作，帮助企业解决运营阶段内的降本增效、安全生产等痛点问题。主要服务内容有：

- 建立企业级的信息管理平台，使各级管理人员及时了解工厂生产信息及设备运行状态并及时做出决策
- 建立和完善各类设备管理软件，减少运维人员重复性工作，改善运维和巡检策略，优化劳动力配置
- 优化恶劣工况下的设备选型，通过提升设备可靠性，减少重复故障，减少故障处理时间，降低装置非计划停工风险
- 提升现场仪表设备智能化水平，在减少日常巡检时间的同时，增加设备健康状态信息，降低被动维护比例，向预测性、预知性维护过渡，降低整体运维成本
- 完善现场转动设备和静设备的健康状态信息，帮助运维团队及时了解故障隐患，缩短故障处理时间，降低维修成本，避免因设备突发故障导致的生产波动
- 通过软件技术帮助企业提升装置自动控制率，减少生产波动，提升生产效率，降低操作人员工作强度
- 通过标准化的软件及工作流程，帮助企业优化生产装置工艺报警，避免报警海造成的报警失效，降低生产装置安全风险
- 通过数字孪生技术，帮助企业提升员工培训效率，使员工能够在模拟实际工况的条件下快速熟悉装置操作，提升装置运营效率，减少装置开工时间

Smart Operation and Maintenance

In the whole lifecycle of a plant, the operation stage is the key stage to generate benefits. Facing the increasingly fierce market competition environment and the quo of the domestic labor market, how to control operating costs and improve production efficiency during the operation stage has become the top priority. Emerson's "Smart Operation and Maintenance" service is a comprehensive consulting service, which aims to build a smart operation and maintenance system by combining various advanced Emerson solutions to realize Alarm Management and Predictive Maintenance. It can further optimize production and maintenance, and help to cope with the challenges in cost reduction, efficiency increase, and safe production during the operation stage. The main services include:

- To establish a plant-level management platform. Managers at all levels can keep abreast of production information and equipment operation status and make timely decisions
- To establish and improve various equipment management software, reduce repetitive workload of operation and maintenance, improve operation, maintenance and inspection strategies, and optimize labor allocation
- Improve reliability by optimizing equipment sizing under severe working conditions to reduce repeated failures, troubleshooting time, and the risk of unplanned plant shutdowns
- Improve the intelligence level of on-site equipment to complete equipment health status information & reduce passive maintenance ratio while reducing daily inspection time. Transit to predictive and predictive maintenance, and reduce overall operation and maintenance costs
- Complete the health status information of on-site rotating equipment and static equipment, help the operation and maintenance team to understand the hidden faults in time, shorten the troubleshooting time, reduce maintenance costs, and avoid production fluctuations caused by sudden equipment failures
- Improve the automatic control rate through software technology, reduce production fluctuations, improve production efficiency, and reduce the work intensity of operators
- Optimize the process alarm of production equipment through standardized software and workflow, avoid the alarm failure caused by the alarm sea, and reduce the safety risk of production equipment through standardized software and workflow
- The Digital Twins technology helps plant to improve the efficiency of employee training, so that employees can quickly become familiar with the operation of the device under the condition of simulating the actual working conditions, improve the operation efficiency of the device, and reduce the start-up time of the device



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86-21-57071976

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电话:86-511-83350020

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邮编:518101
电话:86-755-29746888

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邮编:610207
电话:86-28-82000599

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