



Hexitronics®

Hexitronics Automation LLP BOOK 1 – DEVICE CATALOGUE

HEXITRONICS AUTOMATION LLP
INDUSTRIAL IoT DEVICE CATALOGUE
Connect. Monitor. Predict. Optimize.

Transforming Industrial Data into Actionable Intelligence

From standalone sensors to enterprise-scale monitoring systems, Hexitronics delivers Industrial IoT solutions that enable real-time visibility, operational efficiency, predictive maintenance, and AI-driven decision making.



Solutions

- Energy & Power
- Oil & Gas
- Water & Wastewater
- Manufacturing
- Infrastructure
- Agriculture
- Environment & Sustainability
- Mining & Metals
- Logistics & Supply Chain

Technologies

- Industrial IoT
- Cloud Connectivity
- Edge Computing
- AI Analytics
- Predictive Maintenance
- Industrial Automation
- Remote Monitoring

Hexitronics Automation LLP
Industrial IoT | AI | Automation

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ABOUT HEXITRONICS

ABOUT US

Engineering the Future of Industrial Intelligence

Hexitronics Automation LLP is an Industrial IoT company dedicated to helping industries connect, monitor, analyze, and optimize their operations through advanced sensing, communication, cloud, and AI technologies.

Founded with a vision to bridge the gap between industrial assets and intelligent decision-making, Hexitronics develops scalable monitoring solutions that transform raw field data into actionable business insights.

Our solutions are designed to serve a wide range of industries, including Energy & Power, Oil & Gas, Water & Wastewater, Manufacturing, Infrastructure, Agriculture, Mining, Logistics, and Environmental Monitoring.

Founded : 2020

Headquarters : Bengaluru

Industry Focus :

Industrial IoT & AI

Solutions :

100+ Sensor Integrations

Industries :

Energy, Water, Oil & Gas,

Manufacturing and Infrastructure

What We Deliver

 IoT Devices

 Cloud Platforms

 Dashboards

 AI Analytics

 Automation

 Remote Monitoring

Industrial IoT Devices

Robust field-ready hardware designed for industrial environments.

Sensor Integration

Support for a wide range of industrial sensors and instrumentation.

Cloud Platforms

Secure real-time dashboards, reports, and alerts.

AI-Ready Infrastructure

Enable predictive analytics and intelligent decision support.

Custom Solutions

Tailored solutions designed around specific customer challenges.

Our Vision

To become a trusted technology partner for industries seeking to leverage IoT and Artificial Intelligence for safer, smarter, and more efficient operations.

Our Mission

To simplify industrial digital transformation through practical, scalable, and cost-effective IoT solutions.

HEXITRONICS AT A GLANCE

HEXITRONICS CAPABILITIES

From Sensor to Intelligence

Field Sensors



Hexitronics Devices



Communication Network



Cloud Platform



Dashboards & Reports



AI Analytics



Business Decisions

Core Technology Stack

Sensing

- Temperature
- Pressure
- Flow
- Level
- Energy
- Vibration
- Gas Detection
- Weather Monitoring
- Corrosion Monitoring

Connectivity

- RS485
- Modbus RTU
- Ethernet
- WiFi
- 4G LTE
- LoRaWAN
- NB-IoT

Cloud Services

- Real-Time Monitoring
 - Alerts & Notifications
 - Historical Data Logging
 - Analytics
 - Report Generation
-

AI Services

Available as an Optional Upgrade

- Predictive Maintenance
 - Energy Optimization
 - Failure Prediction
 - Root Cause Analysis
 - Operational Recommendations
-

Industries Served

- Energy & Power
- Oil & Gas
- Water & Wastewater
- Manufacturing
- Smart Infrastructure
- Agriculture
- Mining & Metals
- Environment & Sustainability

Why Hexitronics

- Industrial Focused
 - Scalable Architecture
 - Multi-Industry Experience
 - Open Integration Capability
 - AI-Ready Solutions
 - End-to-End Support
-

"Monitoring Today. Predicting Tomorrow."

HEXTRONICS DEVICE FAMILY

HX-EDGE

Universal IoT Gateways

 Universal Industrial IoT Gateways

Applications:

- Data Acquisition
- Remote Monitoring
- Multi-Sensor Connectivity

HX-ENERGY SERIES

 Energy & Power Monitoring

Applications:

- Energy Monitoring
- DG Monitoring
- Solar Monitoring
- Transformer Monitoring

HX-PROCESS SERIES

 Process & Utility Monitoring

Applications:

- Pump Monitoring
- Tank Monitoring
- Flow Monitoring
- Compressor Monitoring

HX-SAFETY SERIES

 Safety & Protection

Applications:

- Gas Monitoring
- Fire Hydrant Monitoring
- Corrosion Monitoring
- Leak Detection

HX-ENVIRONMENT SERIES

 Environmental Monitoring

Applications:

- Air Quality
- Water Quality
- Weather Monitoring
- ESG Monitoring

HX-ASSET SERIES

 Asset & Fleet Monitoring

Applications:

- Vehicle Tracking
- Asset Tracking
- Cold Chain Monitoring
- Logistics Monitoring

AI READY ARCHITECTURE

Every Hexitronics Device Can Be Upgraded To:

- Predictive Maintenance
- Failure Prediction
- Energy Optimization
- AI Driven Decision Support
- Root Cause Analysis



KEY HIGHLIGHTS

-  4 Digital Inputs
-  RS485 Modbus Support
-  WiFi Connectivity
-  4G Connectivity
-  Cloud Ready
-  AI Ready
-  Industrial Grade Design

HX-EDGE-100

ESSENTIAL IoT GATEWAY

Industrial Data Acquisition & Remote Monitoring Controller

PRODUCT OVERVIEW

The HX-EDGE-100 Essential IoT Gateway is a compact industrial monitoring controller designed for remote asset monitoring, data acquisition, and cloud connectivity.

The device enables industries to collect real-time field data from sensors, switches, energy meters, and industrial equipment and securely transmit information to cloud dashboards for monitoring, reporting, alerts, and future AI-driven analytics.

Ideal for small and medium-sized industrial monitoring applications.

TYPICAL APPLICATIONS

-  Pump Monitoring
-  Tank Monitoring
-  Energy Monitoring
-  Fire Hydrant Monitoring
-  Corrosion Monitoring
-  Water Distribution Monitoring
-  Utility Monitoring
-  Equipment Status Monitoring

HEXITRONICS ADVANTAGES


Quick
Deployment


Cloud
Connected


Remote
Diagnostics

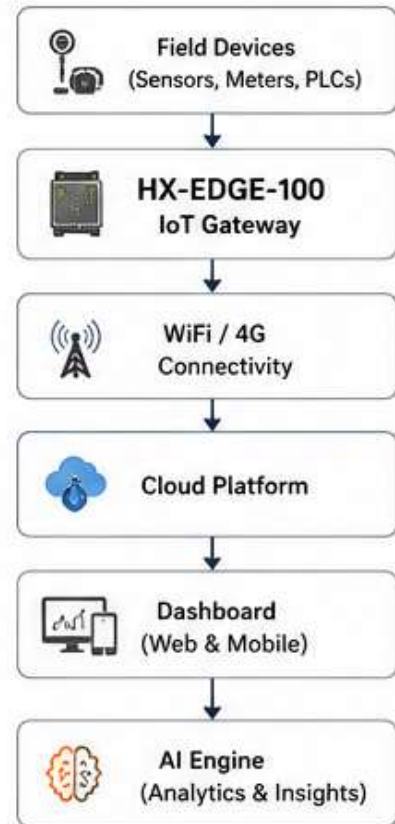

Expandable
Architecture


AI
Ready

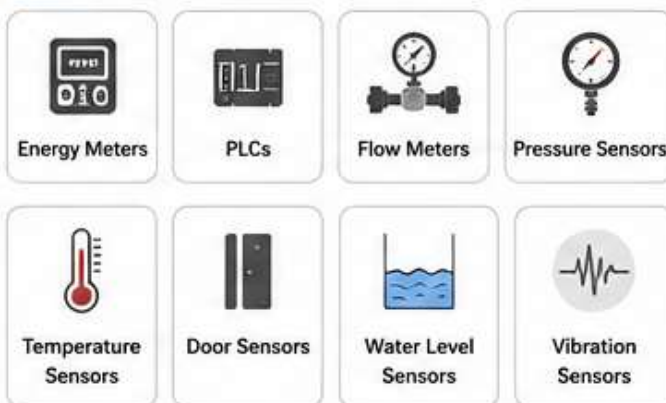
TECHNICAL SPECIFICATIONS

Parameter	Specification
Product Code	HX-EDGE-100
Product Name	Essential IoT Gateway
Power Supply	9 – 36 VDC
Digital Inputs	4
Digital Outputs	-
Analog Inputs	-
RTD Inputs	-
Thermocouple Inputs	-
RS485	Yes
WiFi	Yes
4G LTE	Yes
GPS	No
Ethernet	No
Protocol Support	Modbus RTU
Cloud Support	MQTT / HTTPS
Dashboard Support	Web & Mobile
AI Ready	Yes
Operating Temperature	-20°C to +70°C
Enclosure	DIN Rail Mount
Dimensions (mm)	90 (H) x 71 (W) x 60 (D)

COMMUNICATION ARCHITECTURE



COMPATIBLE DEVICES



AI UPGRADE AVAILABLE

Optional Hexitronics AI Suite

- ✓ Runtime Analysis
- ✓ Predictive Alerts
- ✓ Pattern Recognition
- ✓ Asset Health Monitoring
- ✓ Intelligent Recommendations



INDUSTRIAL GRADE



SECURE & RELIABLE



CLOUD CONNECTED



AI READY

INDUSTRIAL DEPLOYMENT ARCHITECTURE





KEY HIGHLIGHTS

- 4 Digital Inputs
- 2 Analog Inputs
- RS485 Modbus Support
- WiFi Connectivity
- 4G Connectivity
- Multi-Sensor Integration
- Edge Processing Capability
- Cloud Ready
- AI Ready
- Industrial Grade Design

HX-EDGE-200
ADVANCED IoT GATEWAY

Industrial Multi-Sensor Monitoring & Edge Intelligence Platform

PRODUCT OVERVIEW

The HX-EDGE-200 Advanced IoT Gateway is designed for industrial applications requiring multiple sensor integrations, advanced communications, remote diagnostics, and enterprise-grade monitoring.

The gateway collects data from field instruments, PLCs, energy meters, pumps, tanks, environmental sensors, and utility systems and securely transmits information to cloud platforms for monitoring, analytics, reporting, and AI-driven decision support.

Ideal for medium and large industrial deployments where multiple assets need to be monitored through a single platform.

TYPICAL APPLICATIONS

Pump Monitoring Systems	Tank Farm Monitoring	Water Distribution Networks	Industrial Utilities Monitoring	Environmental Monitoring
Multi-Asset Monitoring	Energy Monitoring	Fire Hydrant Networks	Corrosion Monitoring	Manufacturing Process Monitoring

ADVANCED FEATURES

Multi-Sensor Architecture Connect multiple sensors simultaneously from a single gateway.	Remote Configuration Remote Modify parameters remotely without site visits.	Edge Processing Edge Perform local data filtering and intelligent event handling.	Expandable Architecture Suitable for future expansion and AI integration.
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HEXITRONICS ADVANTAGES

Reduced Site Visits	Faster Deployment	Remote Diagnostics	Scalable Architecture	AI Compatible	Enterprise Ready
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TECHNICAL SPECIFICATIONS

Parameter	Specification
Product Code	HX-EDGE-200
Product Name	Advanced IoT Gateway
Power Supply	9 – 36 VDC
Digital Inputs	4
Analog Inputs	2
Digital Outputs	Optional
RTD Inputs	Optional
Thermocouple Inputs	Optional
RS485	Yes
WiFi	Yes
4G LTE	Yes
GPS	No
Ethernet	No
Protocol Support	Modbus RTU
Cloud Support	MQTT / HTTPS
Dashboard Support	Web & Mobile
AI Ready	Yes
Mounting	DIN Rail
Operating Temperature	-20°C to +70°C
Dimensions (mm)	90 (H) x 71 (W) x 60 (D)

COMPATIBLE DEVICES

 <p>INDUSTRIAL SENSORS</p> <ul style="list-style-type: none"> • Pressure Sensors • Temperature Sensors • RTD Sensors • Thermocouples 	 <p>ELECTRICAL DEVICES</p> <ul style="list-style-type: none"> • Energy Meters • Power Analyzers
 <p>INDUSTRIAL CONTROLLERS</p> <ul style="list-style-type: none"> • PLCs • VFDs 	 <p>PROCESS INSTRUMENTS</p> <ul style="list-style-type: none"> • Flow Meters • Level Sensors • Valve Controllers
 <p>UTILITY MONITORING</p> <ul style="list-style-type: none"> • Pump Controllers • Compressor Systems • Tank Monitoring Systems 	

COMMUNICATION ARCHITECTURE



AI UPGRADE AVAILABLE

Optional Hexitronics AI Suite

- ✓ Predictive Maintenance
- ✓ Failure Prediction
- ✓ Energy Optimization
- ✓ Pattern Recognition
- ✓ Anomaly Detection
- ✓ Root Cause Analysis
- ✓ Asset Health Monitoring
- ✓ Intelligent Recommendations



INDUSTRIAL GRADE



CLOUD CONNECTED



SECURE & RELIABLE



SCALABLE



AI READY

INDUSTRIAL DEPLOYMENT ARCHITECTURE





KEY HIGHLIGHTS

- 8 Digital Inputs
- 2 Analog Inputs
- 4 Digital Outputs
- RS485 Modbus Support
- WiFi Connectivity
- 4G Connectivity
- GPS Enabled
- Ethernet Connectivity
- Multi-Site Monitoring
- Edge Analytics
- AI Ready
- Remote Firmware Updates
- Secure Communication
- Industrial Grade Design

HX-EDGE-300
ENTERPRISE IoT GATEWAY

Industrial Edge Computing Platform

PRODUCT OVERVIEW

The HX-EDGE-300 Enterprise IoT Gateway is a high-performance industrial edge computing platform designed for large-scale, multi-site and mission-critical monitoring applications.

It connects hundreds of sensors, meters, PLCs and machines, processes data at the edge, and securely transmits information to enterprise cloud platforms for advanced analytics, reporting and AI-driven insights.

Built for reliability, scalability and future-ready industrial deployments.

TYPICAL APPLICATIONS

 Utility Monitoring	 Oil & Gas Infrastructure	 Water Distribution Networks
 Smart Manufacturing	 Environmental Monitoring	 Fleet & Mobile Assets

ENTERPRISE ADVANTAGES

 Multi-Site Management Monitor hundreds of assets from a single dashboard.	 Edge Intelligence Local decision-making and event handling capability.	 Secure Connectivity Enterprise-grade security and reliable communication.	 Future Proof Platform Designed for AI and Industry 5.0 applications.
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 Smart Infrastructure	 Agriculture Networks
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INDUSTRIAL GRADE	CLOUD CONNECTED	SECURE & RELIABLE	AI READY
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HX-EDGE SERIES COMPARISON MATRIX

HX-EDGE Product Comparison

FEATURE	HX-EDGE-100 Essential	HX-EDGE-200 Advanced	HX-EDGE-300 Enterprise
Digital Inputs	4	4	8
Analog Inputs	-	2	2
Digital Outputs	-	-	4
RS485	✓	✓	✓
WiFi	✓	✓	✓
4G	✓	✓	✓
GPS	✗	✗	✓
Ethernet	✗	✗	✓
Cloud Support	✓	✓	✓
AI Ready	✓	✓	✓
Edge Processing	Basic	Advanced	Advanced
Multi-Site Support	✗	Limited	✓
Max Sensor Support*	Up to 16	Up to 64	Up to 250+
Recommended For	Small Projects	Medium Projects	Enterprise Projects

*Depends on sensor type and configuration.

WHICH MODEL SHOULD I CHOOSE?

HX-EDGE-100 Essential	HX-EDGE-200 Advanced	HX-EDGE-300 Enterprise
<p>Best for:</p> <ul style="list-style-type: none"> ✓ Small monitoring projects ✓ Single asset monitoring ✓ Basic remote monitoring ✓ Cost effective solution 	<p>Best for:</p> <ul style="list-style-type: none"> ✓ Multi-sensor projects ✓ Utilities monitoring ✓ Industrial applications ✓ Scalable solutions 	<p>Best for:</p> <ul style="list-style-type: none"> ✓ Enterprise deployments ✓ Multi-site monitoring ✓ Critical infrastructure ✓ Future-ready solutions 

HX-EDGE SERIES ARCHITECTURE



**ONE PRODUCT FAMILY.
UNLIMITED INDUSTRIAL APPLICATIONS.**

HX-ENERGY SERIES

Smart Energy Monitoring Solutions



WHAT CAN BE MONITORED?

- ✓ Voltage
- ✓ Current
- ✓ Power
- ✓ Power Factor
- ✓ Frequency
- ✓ Energy Consumption
- ✓ Demand
- ✓ Equipment Runtime



APPLICATIONS

- Manufacturing Plants
- Water Utilities
- Oil & Gas
- Commercial Buildings
- Substations
- Agriculture

AI READY FEATURES

<p>Energy Anomaly Detection</p> <p>Detect unusual energy patterns and prevent losses.</p>	<p>Peak Demand Prediction</p> <p>Predict peak demand and optimize load management.</p>	<p>Energy Optimization</p> <p>Optimize energy usage and reduce operational costs.</p>	<p>Load Forecasting</p> <p>Forecast future load and plan capacity effectively.</p>
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HX-EM-100 ESSENTIAL ENERGY MONITOR
Measure. Monitor. Save.

PRODUCT POSITIONING
The HX-EM-100 is an entry-level energy monitoring solution designed to provide real-time visibility into electrical energy consumption, power quality, and equipment runtime.

Ideal for factories, utilities, commercial buildings, water treatment plants, and energy-conscious industries looking to begin their digital energy management journey.

KEY HIGHLIGHTS

- Voltage Monitoring
- Current Monitoring
- Power Monitoring
- Energy Consumption
- Power Factor
- Frequency
- Dashboard Ready
- Cloud Connected
- AI Ready

TYPICAL APPLICATIONS

Manufacturing Plants	STP / ETP / WTP
DG Monitoring	Distribution Panels
Commercial Buildings	Agriculture Pump Sets

CUSTOMER BENEFITS

ENERGY VISIBILITY Know exactly where energy is consumed.	COST REDUCTION Identify wastage and optimize usage.	REMOTE MONITORING Monitor from anywhere, anytime.	AUTOMATED REPORTS Reduce manual data collection and errors.
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“ YOU CANNOT MANAGE WHAT YOU DO NOT MEASURE. ”

HX-EM-100 TECHNICAL SPECIFICATIONS

WHAT CAN BE MONITORED?



COMPATIBLE DEVICES

Energy Meters	Power Analyzers	DG Controllers	Smart MCC Panels	VFD Systems
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AI UPGRADE AVAILABLE

- Energy Anomaly Detection
- Peak Demand Prediction
- Energy Optimization
- Load Forecasting

MEASURE MONITOR ANALYZE OPTIMIZE

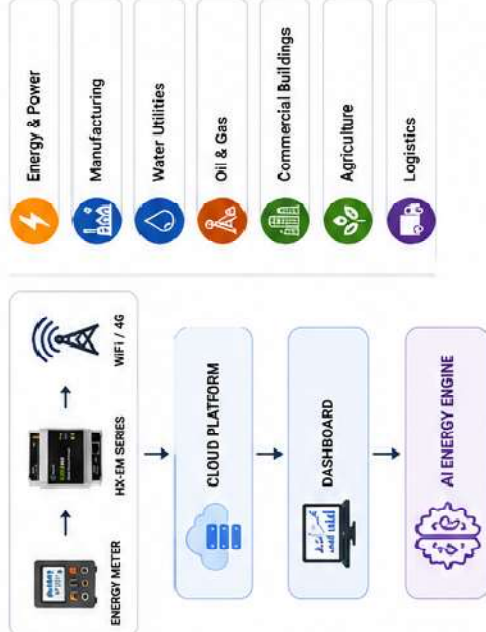
HX-ENERGY SERIES APPLICATION MATRIX



APPLICATIONS SUPPORTED?

Application	HX-EM-100 Essential	HX-EM-200 Advanced	HX-EM-300 Enterprise
Single Energy Meter	✓	✓	✓
DG Monitoring	✓	✓	✓
Solar Monitoring	Limited	✓	✓
Multi-Meter Monitoring	Limited	✓	✓
Factory Energy Monitoring	Limited	✓	✓
Utility Monitoring	✗	✓	✓
Multi-Site Energy Monitoring	✗	Limited	✓

ENERGY MONITORING ARCHITECTURE



INDUSTRIES BENEFITING

Energy & Power
Manufacturing
Water Utilities
Oil & Gas
Commercial Buildings
Agriculture
Logistics

REDUCE COST. IMPROVE EFFICIENCY. DRIVE SUSTAINABILITY.

HX-CORR SERIES

Smart Corrosion Monitoring Solutions

Protecting Critical Assets.
Extending Asset Life.

WHY CORROSION MONITORING?

- ✗ Pipeline failures
- ✗ Tank leakages
- ✗ Asset degradation
- ✗ Unplanned shutdowns
- ✗ Safety incidents
- ✗ Environmental damage

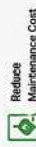
HEXITRONICS SOLUTION

Real-Time Corrosion Monitoring

- ✓ Corrosion Rate
- ✓ Corrosion Potential
- ✓ Cathodic Protection Effectiveness
- ✓ Asset Health
- ✓ Environmental Conditions
- ✓ Historical Trends

INDUSTRIES SERVED

- Oil & Gas
- Energy & Power
- Chemical Plants
- Marine
- Mining
- Water Utilities



Reduce Maintenance Cost
Improve Asset Reliability
Prevent Failures
Enable Predictive Maintenance
Improve Safety

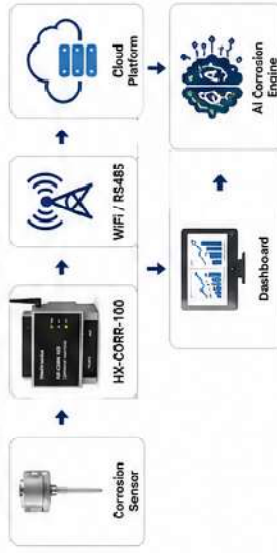
CORROSION NEVER SLEEPS. NEITHER SHOULD YOUR MONITORING SYSTEM.

HX-CORR-100

TECHNICAL SPECIFICATIONS

Parameter	Specification
Product Code	HX-CORR-100
Product Name	Essential Corrosion Monitor
Digital Inputs	2
Analog Inputs	2
RS-485	Yes
WiFi	Yes
4G	No
GPS	No
Ethernet	No
Dashboard Support	Yes
Cloud Connectivity	Yes
AI Ready	Yes
Power Supply	9 - 36 VDC
Mounting	DIN Rail Mount
Operating Temperature	-20°C to +70°C
Dimensions (mm)	90 (H) x 71 (W) x 60 (D)

CORROSION MONITORING ARCHITECTURE



COMPATIBLE SENSORS

- LPR Sensors
- ER Probes
- Corrosion Coupons
- Cathodic Protection Sensors
- Environmental Sensors

AI UPGRADE AVAILABLE

- Corrosion Trend Prediction
- Asset Health Scoring
- Remaining Life Estimation
- Maintenance Planning
- Risk Analysis



Accurate Data
Real-time Alerts
Cloud Connected
AI Powered

INCREASE ASSET LIFE

HX-CORR-100

Essential Corrosion Monitor

Continuous Corrosion Visibility



PRODUCT OVERVIEW

The HX-CORR-100 is designed for monitoring corrosion parameters from pipelines, tanks, process equipment, and critical infrastructure.

The device continuously acquires field measurements and transmits data to cloud dashboards for analysis, reporting, and predictive maintenance programs.

TYPICAL APPLICATIONS



Pipelines
Storage Tanks
Process Equipment
Power Plants
Marine Assets

KEY HIGHLIGHTS

- Corrosion Monitoring
- RS485 Connectivity
- Cloud Connectivity
- Dashboard Ready
- Historical Trends
- AI Ready

CUSTOMER BENEFITS

- ✓ Early Warning
- ✓ Reduced Inspection Costs
- ✓ Remote Monitoring
- ✓ Improved Asset Life
- ✓ Better Compliance

DETECT EARLY. ACT EARLY.

HX-CORR SERIES

APPLICATION MATRIX

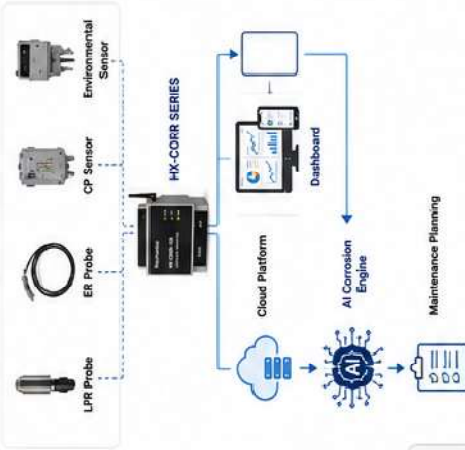
APPLICATIONS SUPPORTED

Application	HX-CORR-100 Essential	HX-CORR-200 Advanced
Pipeline Monitoring	✓	✓
Tank Monitoring	✓	✓
Cathodic Protection	Limited	✓
Multi-Site Monitoring	✗	✓
Refinery Monitoring	Limited	✓
Enterprise Asset Monitoring	✗	✓

AI BENEFITS

- Corrosion Rate Forecasting
- Remaining Life Estimation
- Risk Ranking
- Maintenance Optimization
- Asset Reliability Improvement

CORROSION MONITORING ECOSYSTEM



MONITOR CORROSION TODAY. PREVENT FAILURES TOMORROW.

HX-PUMP SERIES

Smart Pump Monitoring Solutions

From Runtime Monitoring
To Predictive Maintenance

- WHY PUMP MONITORING?**
- ✗ Dry Running
 - ✗ Overloading
 - ✗ Bearing Failure
 - ✗ Seal Damage
 - ✗ Cavitation
 - ✗ Low Flow Conditions
 - ✗ High Energy Consumption



HEXITRONICS
HX-PUMP-100
PUMP MONITOR

REAL-TIME PUMP MONITORING

- Pump ON/OFF Status
- Runtime
- Pressure
- Flow
- Energy Consumption
- Tank Levels
- Vibration
- Temperature

INDUSTRIES SERVED

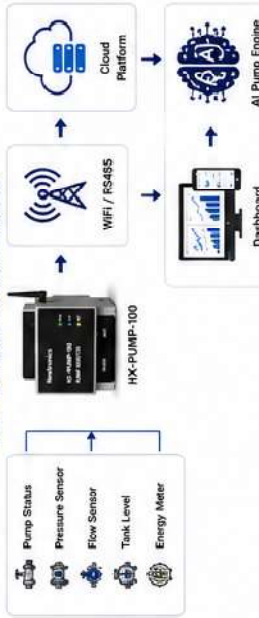
- Water Utilities
- Manufacturing
- Oil & Gas
- Agriculture
- Commercial Buildings
- Power Plants
- Energy Savings
- Reduced Downtime
- Lower Maintenance Cost
- Remote Visibility
- Improved Efficiency

EVERY PUMP HAS A STORY. LET THE DATA TELL IT.

HX-PUMP-100 TECHNICAL SPECIFICATIONS

Parameter	Specification
Product Code	HX-PUMP-100
Product Name	Essential Pump Monitor
Digital Inputs	2
Digital Outputs	2
Analog Inputs	1
RTD Inputs	1
RS485	Yes
WiFi	Yes
4G	No
GPS	No
Ethernet	No
Dashboard Support	Yes
Cloud Connectivity	Yes
AI Ready	Yes
Power Supply	9 - 36 VDC
Mounting	DIN Rail Mount
Operating Temperature	-20°C to +70°C
Dimensions (mm)	90 (H) x 71 (W) x 60 (D)

PUMP MONITORING ARCHITECTURE



COMPATIBLE SENSORS

- Pressure Sensors
- Flow Meters
- Tank Level Sensors
- Energy Meters
- Temperature Sensors

AI UPGRADE AVAILABLE

- Pump Health Score
- Failure Prediction
- Energy Optimization
- Runtime Analysis
- Maintenance Planning

HX-PUMP-100

Essential Pump Monitor

Real-Time Pump Visibility



PRODUCT OVERVIEW

HX-PUMP-100 continuously monitors pump operation, runtime, status, pressure, and associated process parameters.

The system provides operators with real-time visibility into pump performance and sends alerts when abnormal operating conditions occur.

TYPICAL APPLICATIONS



KEY HIGHLIGHTS

- Pump Status Monitoring
- Energy Monitoring
- Runtime Monitoring
- RS485 Connectivity
- Cloud Connected
- Dashboard Ready
- AI Ready

CUSTOMER BENEFITS

- Reduced Site Visits
- Early Fault Detection
- Improved Reliability
- Lower Maintenance Cost
- Faster Response

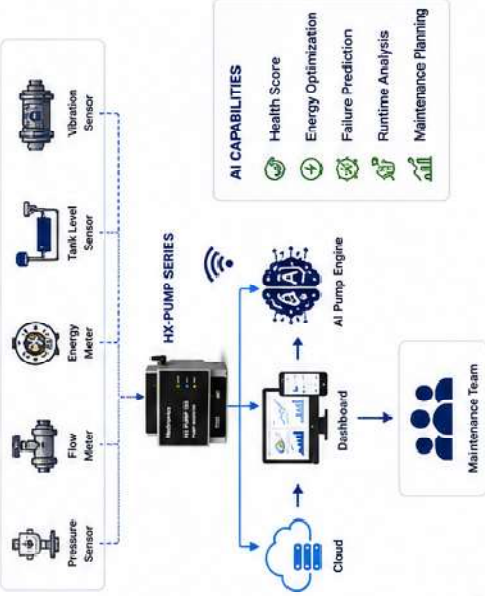
MONITOR PERFORMANCE. PREVENT FAILURES.

HX-PUMP SERIES

PUMP MONITORING ECOSYSTEM

APPLICATIONS SUPPORTED	HX-PUMP-100 Essential	HX-PUMP-200 Advanced
Single Pump	✓	✓
Multi Pump	Limited	✓
Pressure Monitoring	✓	✓
Flow Monitoring	✓	✓
Vibration Monitoring	Limited	✓
Multi-Site Monitoring	✗	✓

PUMP MONITORING ECOSYSTEM



AI BENEFITS

- Pump Health Scoring
- Energy Optimization
- Failure Prediction
- Runtime Optimization
- Maintenance Planning

HX-ASSET SERIES

Smart Asset Tracking & Logistics Monitoring

Know Where Your Assets Are. Anytime. Anywhere.



- GPS TRACKING
- CLOUD CONNECTED
- AI POWERED

WHY ASSET MONITORING?

- Asset Misplacement
- Unauthorized Movement
- Equipment Theft
- Poor Utilization
- Cold Chain Violations
- Delayed Deliveries

REAL-TIME ASSET MONITORING

- GPS Location
- Movement History
- Geofencing
- Asset Utilization
- Route Tracking
- Temperature (Cold Chain)
- Runtime Monitoring
- Battery Status

INDUSTRIES SERVED

- Logistics
- Manufacturing
- Warehousing
- Pharma
- Agriculture
- Utilities
- Construction



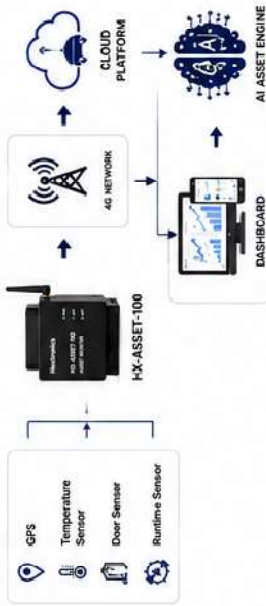
- ### BENEFITS
- Improved Visibility
 - Reduced Asset Loss
 - Better Utilization
 - Improved Customer Service
 - Regulatory Compliance

VISIBILITY CREATES CONTROL.

HX-ASSET-100 TECHNICAL SPECIFICATIONS

Parameter	Specification
Product Code	HX-ASSET-100
Product Name	Essential Asset Monitor
Digital Inputs	2
Digital Outputs	2
Analog Inputs	1
GPS	Yes
WiFi	No
4G-LTE	Yes
RS485	Yes
Dashboard Support	Yes
Cloud Connectivity	Yes
AI Ready	Yes

ASSET MONITORING ARCHITECTURE



COMPATIBLE SENSORS

- GPS
- Temperature
- Door Open/Close
- Fuel Level
- Runtime
- Battery Monitoring

- ### AI UPGRADE AVAILABLE
- Route Optimization
 - Asset Utilization Analysis
 - Theft Detection
 - Predictive Maintenance
 - Cold Chain Compliance

HX-ASSET-100

Essential Asset Monitor

Real-Time Asset Visibility



PRODUCT OVERVIEW

The HX-ASSET-100 is designed to provide continuous tracking and monitoring of movable and fixed industrial assets.

The device combines GPS location intelligence with cloud connectivity, enabling organizations to monitor assets, vehicles, equipment, and inventory remotely.

KEY HIGHLIGHTS

- GPS Tracking
- Asset Monitoring
- Cloud Connected
- Dashboard Ready
- Geofencing
- AI Ready

CUSTOMER BENEFITS

- Asset Visibility
- Theft Prevention
- Utilization Tracking
- Maintenance Planning
- Route Optimization

TYPICAL APPLICATIONS

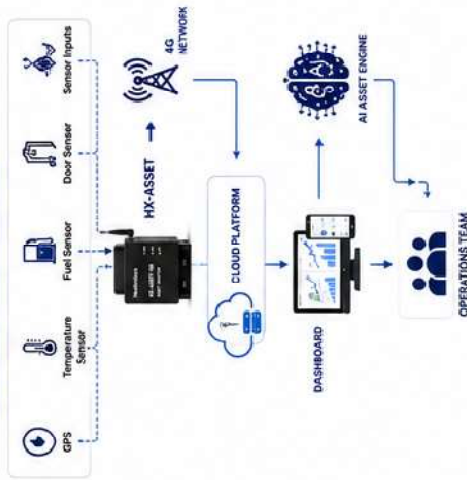


TRACK SMARTER. OPERATE BETTER.

HX-ASSET SERIES ASSET MONITORING ECOSYSTEM

Application	HX-ASSET-100 Essential	HX-ASSET-200 Advanced
Vehicle Tracking		
Asset Tracking		
Geofencing		
Cold Chain Monitoring	Limited	
Fleet Analytics	Limited	
Multi-Site Assets		

ASSET MONITORING ECOSYSTEM



- ### AI BENEFITS
- Route Optimization
 - Utilization Analytics
 - Theft Prevention
 - Predictive Maintenance
 - Operational Efficiency

HX-CONDITION SERIES

Smart Condition Monitoring Solutions

From Reactive Maintenance To Predictive Maintenance

- WHY CONDITION MONITORING?**
- ✗ Bearing Wear
 - ✗ Shaft Misalignment
 - ✗ Unbalance
 - ✗ Looseness
 - ✗ Overheating
 - ✗ Lubrication Issues
 - ✗ Electrical Faults



REAL-TIME EQUIPMENT HEALTH MONITORING

- Vibration
- RPM
- Temperature
- Current
- Voltage
- Power
- Noise Levels
- Runtime

INDUSTRIES SERVED

- Manufacturing
- Energy & Power
- Oil & Gas
- Water Utilities
- Connect
- Mining
- Marine

BENEFITS

- ✓ Reduced Downtime
- ✓ Early Fault Detection
- ✓ Lower Maintenance Cost
- ✓ Increased Equipment Life
- ✓ Improved Reliability

MACHINES SPEAK THROUGH VIBRATIONS. WE HELP YOU LISTEN.

HX-VIB-100

Essential Vibration Monitor

Early Fault Detection For Rotating Equipment



PRODUCT OVERVIEW

HX-VIB-100 continuously monitors vibration levels and equipment health indicators to identify developing faults before they become failures. The system enables maintenance teams to move from reactive maintenance to condition-based maintenance.

TYPICAL APPLICATIONS



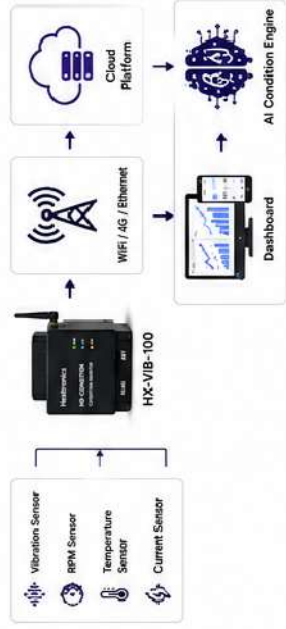
- KEY HIGHLIGHTS**
- Vibration Monitoring
 - RPM Monitoring
 - Temperature Monitoring
 - RS485 Connectivity
 - Cloud Connected
 - Dashboard Ready
 - AI Ready
- CUSTOMER BENEFITS**
- ✓ Bearing Fault Detection
 - ✓ Reduced Breakdowns
 - ✓ Better Maintenance Planning
 - ✓ Increased Asset Life
 - ✓ Improved Productivity

DETECT PROBLEMS BEFORE THEY BECOME FAILURES.

HX-VIB-100 TECHNICAL SPECIFICATIONS

Parameter	Specification
Product Code	HX-VIB-100
Product Name	Essential Vibration Monitor
Analog Inputs	2
RTD Inputs	1
RS485	Yes
WiFi	Yes
4G LTE	Yes
GPS	Yes
Ethernet	Yes
Dashboard Support	Yes
Cloud Connectivity	Yes
AI Ready	Yes
Power Supply	9 - 36 VDC
Mounting	DIN Rail / Wall Mount
Operating Temperature	-20°C to +70°C
Dimensions (mm)	90 (H) x 71 (W) x 60 (D)

CONDITION MONITORING ARCHITECTURE



COMPATIBLE SENSORS



AI UPGRADE AVAILABLE

- ✓ Bearing Fault Prediction
- ✓ Remaining Useful Life
- ✓ Anomaly Detection
- ✓ Maintenance Scheduling
- ✓ Reliability Scoring

HX-CONDITION SERIES

Predictive Maintenance Ecosystem

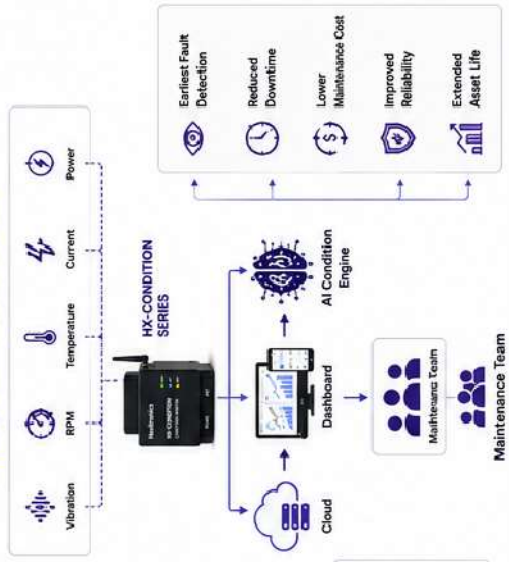
APPLICATIONS SUPPORTED

Application	HX-VIB-100	HX-VIB-200
Motor Monitoring	✓	✓
Pump Monitoring	✓	✓
Fan Monitoring	✓	✓
Compressor Monitoring	Limited	Limited
Gearbox Monitoring	Limited	✗
Multi-Asset Monitoring	✗	✗

AI BENEFITS

- ✓ Fault Prediction
- ✓ Remaining Useful Life
- ✓ Reliability Scoring
- ✓ Predictive Maintenance
- ✓ Maintenance Optimization

PREDICTIVE MAINTENANCE ECOSYSTEM



SENSOR ECOSYSTEM

Every Industrial Parameter. One Platform.
Monitor Anything. Anywhere.

SUPPORTED CATEGORIES

- Temperature
- Pressure
- Flow
- Level
- Gas
- Energy
- Vibration
- RPM
- Noise
- Weather
- Corrosion
- Position



- KEY BENEFITS**
- 100+ Industrial Sensors
 - Wide Range of Applications
 - High Accuracy & Reliability
 - Easy Integration
 - Cloud Connected
 - AI Powered Insights

100+ SENSORS
Unlimited Applications.

PROCESS & UTILITY SENSORS
Industrial Process Monitoring



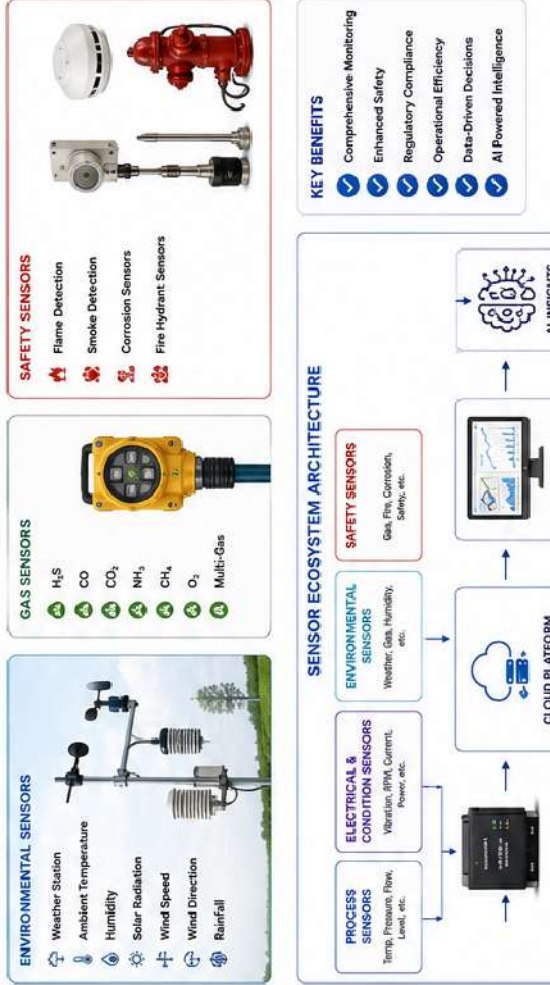
ELECTRICAL & CONDITION MONITORING SENSORS

Powering Reliability. Enabling Predictive Maintenance.



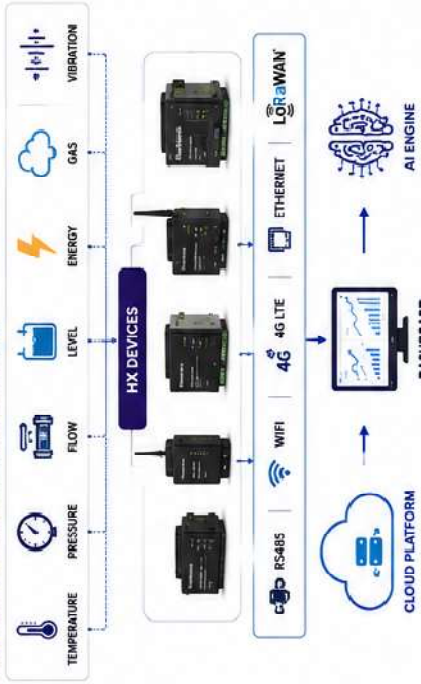
ENVIRONMENTAL & SAFETY SENSORS

Safety, Sustainability & Compliance.



HEXITRONICS CONNECTIVITY ECOSYSTEM

Connecting Every Sensor. Every Device. Every Industry.
One Unified Industrial Communication Platform



- WIRED CONNECTIVITY**
 - RS-485
 - Modbus RTU
 - Ethernet
 - Digital I/O
 - Analog Inputs
- WIRELESS CONNECTIVITY**
 - WiFi
 - 4G LTE
 - NB-IoT (Future)
 - LoRaWAN (Future)
- CLOUD CONNECTIVITY**
 - MQTT
 - HTTPS
 - REST API
 - Secure Data Transfer

HEXITRONICS DASHBOARD ECOSYSTEM

Turning Data Into Actionable Insights



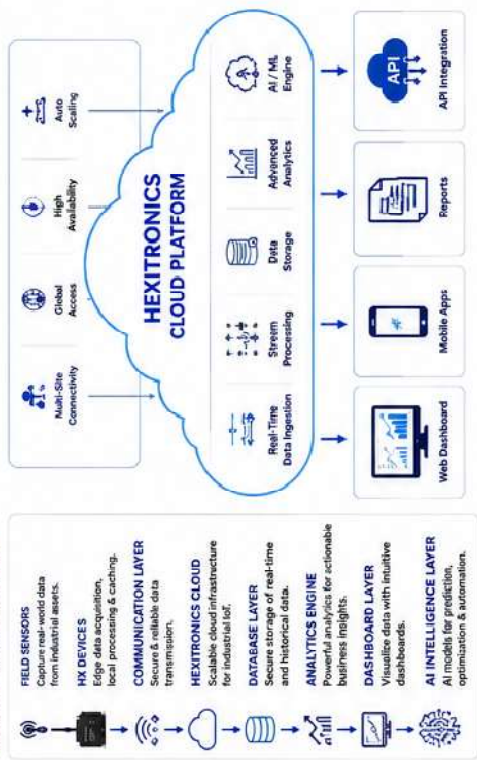
- DASHBOARD FEATURES**
- Real-Time Monitoring**
View live operational status.
 - Historical Trends**
Analyze long-term performance.
 - Alarm Management**
Instant notifications and alerts.
 - Report Generation**
Automated daily, weekly, and monthly reports.
 - GIS Visualization**
Track geographically distributed assets.
 - User Management**
Role-based access control.

DASHBOARD OUTPUTS

- Graphs
- Trends
- Reports
- Mobile Alerts
- Email Notifications
- Asset Maps

HEXITRONICS CLOUD ARCHITECTURE

Secure. Scalable. Reliable.

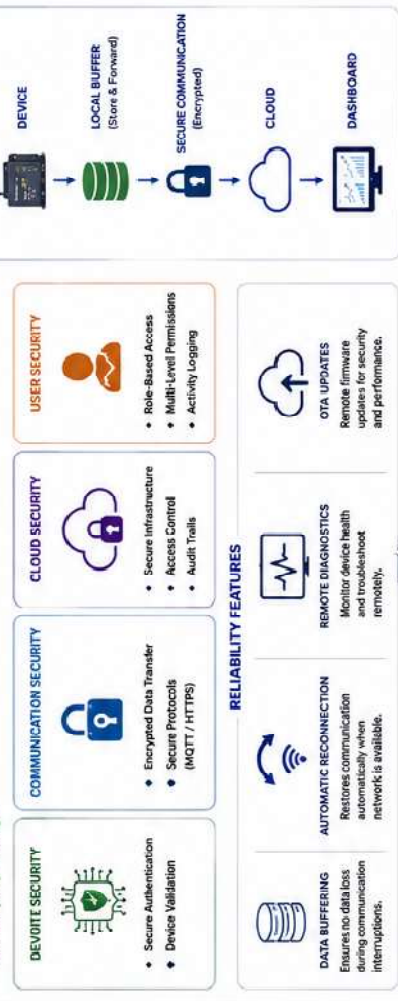


- CLOUD CAPABILITIES**
- Real-Time Data Collection**
Capture and process data instantly.
 - Data Storage**
Store years of historical information.
 - Analytics**
Generate meaningful insights.
 - Enterprise Scalability**
Support thousands of devices & locations.
 - API Integration**
Connect with ERP, SCADA, and third-party systems.

BUILDING INDUSTRIAL INTELLIGENCE ON A SECURE FOUNDATION.

CYBER SECURITY & SYSTEM RELIABILITY

Security By Design



OUR COMMITMENT
We ensure Secure Connectivity, Data Integrity, System Reliability and Business Continuity for mission-critical industrial operations.

- ENCRYPTED DATA
- 24/7 MONITORING
- HIGH AVAILABILITY
- DATA INTEGRITY
- COMPLIANCE READY

TRUSTED CONNECTIVITY. RELIABLE INTELLIGENCE.

45 HEXITRONICS INDUSTRIAL AI SUITE

HEXITRONICS AI SUITE

THE FUTURE OF INDUSTRIAL OPERATIONS
MONITOR. ANALYZE. PREDICT. OPTIMIZE.

SENSORS → **DEVICES** → **DASHBOARD** → **AI INTELLIGENCE** → **BUSINESS DECISIONS**

TRADITIONAL MONITORING

Sensor → Dashboard → Human Interpretation

HEXITRONICS AI MONITORING

Sensor → Dashboard → AI Analysis → Recommendations → Actions

AI APPLICATIONS

- Predictive Maintenance
- Energy Intelligence
- Corrosion Intelligence
- Fire Readiness Intelligence
- Asset Intelligence
- Process Optimization
- Root Cause Analysis

DATA TELLS YOU WHAT HAPPENED. AI TELLS YOU WHAT TO DO NEXT.

46 AI FOR PREDICTIVE MAINTENANCE

PREDICT FAILURES BEFORE THEY HAPPEN

AI INPUTS

- Vibration
- Temperature
- Current
- RPM
- Noise
- Operating Hours

AI ANALYSIS WORKFLOW

- Equipment Data Collection
- Pattern Recognition
- Health Score (85/100)
- Failure Prediction (12 Days Left)
- Maintenance Recommendation

AI OUTPUTS

- Bearing Failure Prediction
- Motor Health Score
- Remaining Useful Life
- Maintenance Planning
- Downtime Reduction

INDUSTRIES SERVED

- Manufacturing
- Power Plants
- Oil & Gas
- Water Utilities
- Mining & Metals

PREDICT • PREPARE • PREVENT • PERFORM

47 AI FOR ENERGY INTELLIGENCE

FROM MONITORING TO OPTIMIZATION

AI INPUTS

- Voltage
- Current
- Power
- Demand
- Power Factor
- Frequency
- Energy Consumption

AI CAPABILITIES

- Energy Waste Detection
- Peak Demand Prediction
- Load Forecasting
- Energy Benchmarking
- Cost Optimization

AI WORKFLOW

- Energy Data Collection
- AI Analysis
- Pattern Recognition
- Optimization Suggestions
- Cost Savings

BENEFITS

- 10-20% Energy Savings
- Improved Power Factor
- Reduced Prognosis
- Lower Operation Cost
- 26% Potential Cost Savings Identified

REDUCE ENERGY COST THROUGH INTELLIGENCE.

48 AI FOR CORROSION & SAFETY

PROTECTING CRITICAL INFRASTRUCTURE

CORROSION INTELLIGENCE

- Corrosion Trend Analysis
- Remaining Life Estimation
- Risk Ranking
- Maintenance Optimization
- Thickness Loss Prediction

FIRE READINESS INTELLIGENCE

- Readiness Scoring
- Pressure Forecasting
- Leak Detection
- Compliance Monitoring
- Hydrant Health Analysis

AI WORKFLOW

- Sensor Data Collection
- Trend Analysis
- Risk Assessment
- Recommendations
- Maintenance Action

KEY BENEFITS

- Extend Asset Life
- Reduce Failure Risk
- Ensure Safety Compliance
- Optimize Maintenance
- Protect People & Assets

SAFETY THROUGH INTELLIGENCE.

49 AI FOR ASSET & OPERATIONS INTELLIGENCE

OPTIMIZING INDUSTRIAL OPERATIONS

ASSET INTELLIGENCE

- Utilization Analytics
- Asset Health Scoring
- Route Optimization
- Threat Detection
- Asset Tracking

ASSET HEALTH OVERVIEW

- Motor-01: 94%
- Pump-04: 87%
- Comp-02: 76%
- Oil Ser-01: 91%

OPERATIONAL INTELLIGENCE

- OEE Improvement
- Process Efficiency
- Resource Optimization
- Bottleneck Detection
- Production Analytics

OEE DASHBOARD

OEE: 78%

AI WORKFLOW

- Operational Data
- AI Analytics
- Insights
- Recommendations
- Business Improvement

OUTCOMES

- Increased Productivity
- Lower Downtime
- Higher Asset Utilization
- Better Decisions
- Improved ROI

SMARTER OPERATIONS. HIGHER PERFORMANCE.

50 HEXITRONICS AI ROADMAP

FROM MONITORING TO AUTONOMOUS OPERATIONS

- LEVEL 1 MONITORING**: Know What is Happening
- LEVEL 2 ANALYTICS**: Understand Why It Happened
- LEVEL 3 PREDICTION**: Predict What Will Happen
- LEVEL 4 RECOMMENDATION**: AI Suggests What To Do
- LEVEL 5 AUTONOMOUS OPERATIONS**: AI Takes Action Independently

HEXITRONICS AI JOURNEY

Monitor → Analyze → Predict → Optimize → Automate

FUTURE VISION

Sensors → Devices → Cloud → AI Assistant → AI Agents → Autonomous Operations

AI CAPABILITIES OF TOMORROW

- Self-Learning Systems
- Autonomous Decisions
- Prescriptive Actions
- Adaptive Optimization
- Continuous Improvement

THE FUTURE IS NOT JUST CONNECTED. THE FUTURE IS INTELLIGENT.

HEXITRONICS AUTOMATION LLP AI SUITE

The Future Of Industrial Operations
Monitor. Analyze. Predict. Optimize.

SENSORS → **CONNECTIVITY** → **DASHBOARD** → **AI INTELLIGENCE** → **BUSINESS DECISIONS**

TRADITIONAL MONITORING

Sensor → Dashboard → Human Interpretation

HEXITRONICS AI MONITORING

Sensor → Dashboard → AI Analysis → Recommendations → Actions

AI APPLICATIONS

- Predictive Maintenance
- Energy Intelligence
- Corrosion Intelligence
- Fire Readiness Intelligence
- Asset Intelligence
- Process Optimization
- Root Cause Analysis

DATA TELLS YOU WHAT HAPPENED. AI TELLS YOU WHAT TO DO NEXT.

AI FOR PREDICTIVE MAINTENANCE

Predict Failures Before They Happen

AI INPUTS

- Vibration
- Temperature
- Current
- RPM
- Noise

AI ANALYSIS WORKFLOW

- Equipment Data
- Pattern Recognition
- Health Score
- Failure Prediction
- Maintenance Recommendation

AI OUTPUTS

- Bearing Failure Prediction
- Motor Health Score
- Remaining Useful Life
- Maintenance Planning
- Downtime Reduction

INDUSTRIES

- Manufacturing
- Power
- Oil & Gas
- Water
- Mining
- Chemical

EARLY DETECTION. SMART MAINTENANCE. ZERO SURPRISES.

AI FOR ENERGY INTELLIGENCE

From Monitoring To Optimization

AI INPUTS

- Voltage
- Current
- Power
- Demand
- Power Factor

AI CAPABILITIES

- Energy Waste Detection
- Peak Demand Prediction
- Load Forecasting
- Energy Benchmarking
- Cost Optimization

AI WORKFLOW

- Energy Data
- AI Analysis
- Pattern Recognition
- Optimization Suggestions
- Cost Savings

BENEFITS

- 10-25% Energy Savings
- 15-30% Cost Reduction
- 24/7 Monitoring
- Real-Time Optimization
- Sustainable Operations

REDUCE ENERGY COST THROUGH INTELLIGENCE.

AI FOR CORROSION & SAFETY

Protecting Critical Infrastructure

CORROSION INTELLIGENCE

- Corrosion Trend Analysis
- Remaining Life Estimation
- Risk Ranking
- Maintenance Optimization

FIRE READINESS INTELLIGENCE

- Readiness Scoring
- Pressure Forecasting
- Leak Detection
- Compliance Monitoring

AI WORKFLOW

- Sensor Data
- Trend Analysis
- Risk Assessment
- Recommendations
- Maintenance Action

AI OUTPUTS

- Corrosion Risk Score
- Remaining Life Estimation
- Risk Heatmap
- Inspection Optimization
- Safety Compliance

SAFETY THROUGH INTELLIGENCE. ASSETS THAT LAST.

AI FOR ASSET & OPERATIONS INTELLIGENCE

Optimizing Industrial Operations

ASSET INTELLIGENCE

- Utilization Analytics
- Route Optimization
- Asset Health Monitoring
- Threat Detection & Alerts

OPERATIONAL INTELLIGENCE

- OEE Improvement
- Resource Optimization
- Process Efficiency
- Bottleneck Detection

AI WORKFLOW

- Operational Data
- AI Analytics
- Insights
- Recommendations
- Business Improvement

BUSINESS IMPACT

- 15-20% OEE Improvement
- 20-30% Asset Utilization
- 25-40% Downtime Reduction
- 15-25% Operating Cost Savings
- Higher Productivity

INTELLIGENT OPERATIONS. MAXIMUM PERFORMANCE.

HEXITRONICS AI ROADMAP

From Monitoring To Autonomous Operations

- LEVEL 1 MONITORING**: Current Status Visibility
- LEVEL 2 ANALYTICS**: Trend Analysis & Reporting
- LEVEL 3 PREDICTION**: Failure Forecasting
- LEVEL 4 RECOMMENDATION**: AI Suggestions & Actions
- LEVEL 5 AUTONOMOUS OPERATIONS**: AI Agents Autonomous Decisions

THE FUTURE VISION

Sensors → Devices → Cloud → AI Assistant → AI Agents → Autonomous Operations

AI CAPABILITIES

- Machine Learning
- Deep Learning
- Anomaly Detection
- Neural Language Processing
- AI Assistants
- Autonomous Workflows

THE FUTURE IS NOT JUST CONNECTED. THE FUTURE IS INTELLIGENT.