

MX-DO-1 Smart Data Logger



REMOTE MONITORING AND DATA LOGGING SYSTEM

An easy-to-use system for remote monitoring, centralized data acquisition, and data logging, providing real-time visibility through intuitive dashboards and advanced alerts to help reduce downtime and improve decision-making.

Its integrated web-based software enables quick configuration and reliable operation without recurring fees. As a cost-effective alternative to traditional SCADA systems, the MX-DO-1 can operate as a standalone device via Modbus RTU or TCP, or integrate with any PLC via Modbus TCP.



**REAL-TIME DATA LOGGING • VISUALIZATION • SMART ALERTS
SECURE REMOTE MONITORING AND ACCESS**

ADVANTAGES OF CENTRALIZED MONITORING

Centralized monitoring is a system that allows supervision and control of multiple devices, sensors, and processes from a single platform instead of isolated systems for each area.



CENTRALIZED DASHBOARD
Complete process visibility

REAL-TIME DATA
From sensors, PLCs, and controllers

BETTER DECISIONS
Clear analysis and trends

HISTORICAL RECORDS
Data and event logging

NOTIFICATIONS
Email alerts and warnings

HIGH RELIABILITY
Continuous industrial operation

THE MX-DO-1 IS THE IDEAL SOLUTION FOR CENTRALIZED MONITORING

The MX-DO-1 is designed for **Industry 4.0** applications, enabling companies to intelligently monitor their equipment. It is a cost-effective and versatile solution ideal for universal applications in connected industrial environments.



- ✓ Fully **customizable** interface for each application.
- ✓ Supports up to **128 Modbus devices** (RTU/TCP) simultaneously.
- ✓ **Intuitive operation** with no advanced training required.
- ✓ **Configurable** alerts and calculations for preventive control.
- ✓ **Unlimited users** for maintenance and technical teams.
- ✓ Compact design with up to **128 GB of internal storage**.
- ✓ **No subscription fees**.

WHO IS IT FOR?

Designed for **maintenance, technical, and plant personnel**, the MX-DO-1 Smart Data Logger can be easily implemented and operated by any user with basic technical skills, removing the need for specialized programming or IT experience.



OPERATIONAL CAPABILITIES

MX-DO-1 Smart Data Logger

1

DATA TRANSMISSION:

Uses industrial communication protocols such as Modbus TCP for Ethernet networks and Modbus RTU over RS485 for long-distance serial communication.

2

DATA ANALYSIS:

Structured logging with export to CSV or Excel for easier analysis.

3

NETWORK INTEGRATION:

Reliable communication and data exchange between field devices, PLCs, and the MX-DO-1 Smart Data Logger.

4

PROCESS OPTIMIZATION:

Continuous data acquisition for process optimization and performance analysis.

5

PREVENTIVE MAINTENANCE & DIAGNOSTICS:

Enables equipment condition monitoring and remote diagnostics.

6

REMOTE MONITORING:

Through the OnControl platform, allowing unified supervision without dependency on external cloud storage.

APPLICATIONS



ENERGY MONITORING

Energy consumption.



MACHINERY CONDITION MONITORING

Temperature, vibration, and pressure monitoring; email alerts and data analysis capabilities.



TANK AND RESERVOIR LEVEL MONITORING

Level sensors with Modbus protocol; remote management.



SERVER ROOM & DATA CENTER SUPERVISION

Temperature and humidity monitoring; logs operational events.



PREVENTIVE MAINTENANCE & REMOTE DIAGNOSTICS

Allows maintenance personnel to remotely monitor and perform

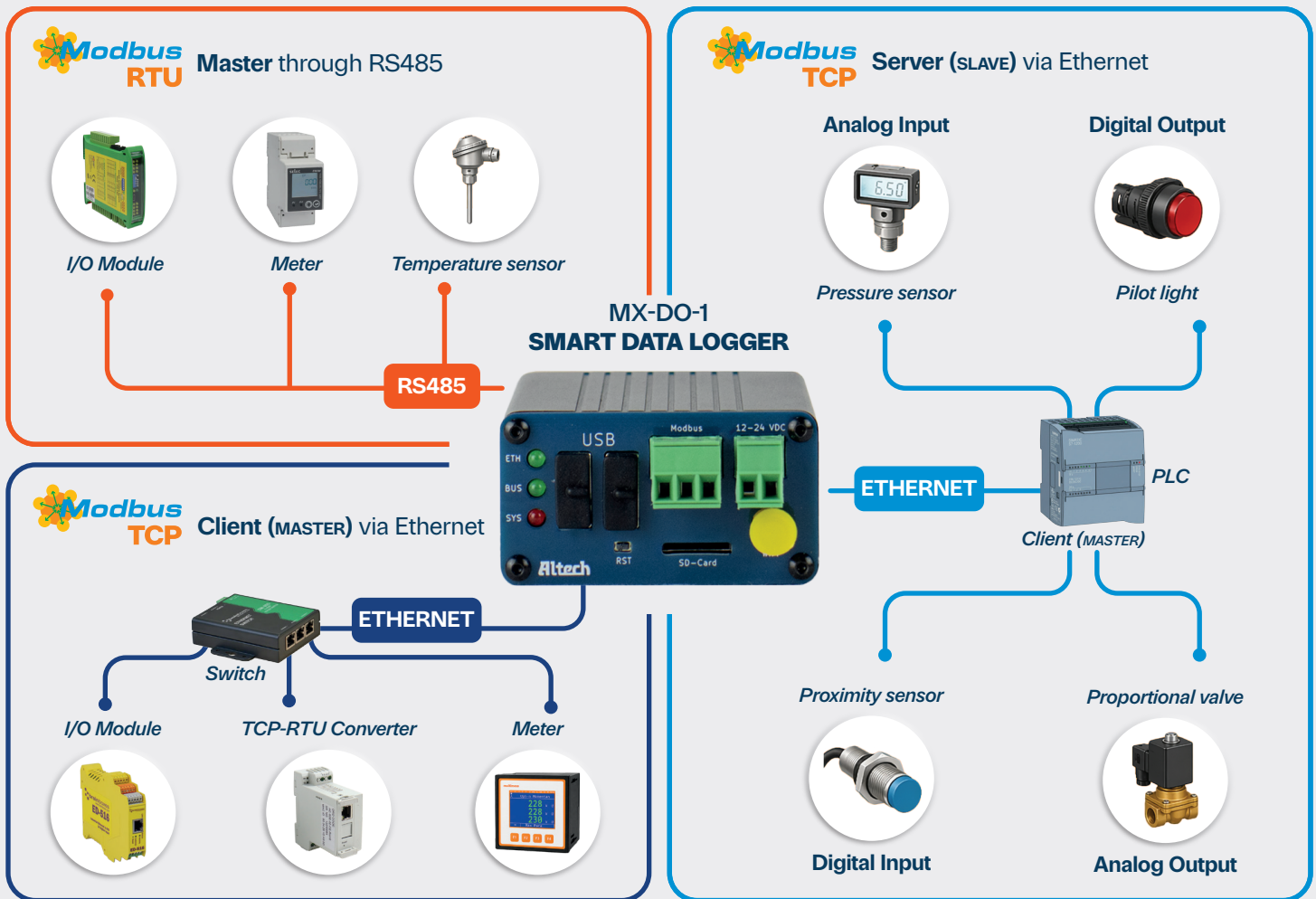


PARKING SYSTEMS

Reliable vehicle detection and automatic system activation.

INDUSTRIAL NETWORK ARCHITECTURE

The **MX-DO-1** supports **Modbus RTU** and **Modbus TCP** communication for integration with industrial sensors, meters, I/O modules, PLCs, and controllers. The device can operate as:

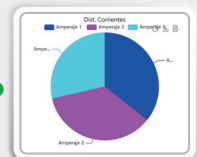


SECURE REMOTE ACCESS OnControl



Remote users

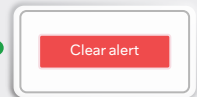
Functions include:



Real-time visualization dashboards



Export data logs to Excel or CSV



Alert visualization and notifications



Provides **secure real-time remote monitoring** and access through **OnControl**, enabling centralized supervision of multiple devices while data remains stored locally on the device and not in the cloud.

For more information, contact us: