

Smart Control of Industrial and Area Lighting with **Modbus** relays; compatible with **PLC** and **BMS**

This module can be used for smart control of industrial or area lighting. Sensors or door status feedback turn lighting on and off automatically via relay outputs. Using the **Modbus RTU** protocol, the system is monitored through **PLC**, **BMS**, or central monitoring software.



Rapid switching
with LED status
indication



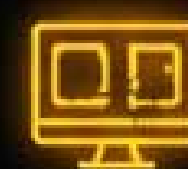
Suitable for yards,
warehouses and
sites



Connection to
central control via
Modbus RTU



Smart lighting
control via
feedback signals



Scheduling and
lighting control via
PLC and BMS



Monitoring presence
or door status via
external sensors

Smart Energy Management in Buildings and Factories

Relay-based consumption cut-off, contactor control and
BMS connectivity with **Modbus I/O**



As an example, non-critical loads can be disconnected via relay outputs during peak consumption. The Modbus RTU connection also enables easy connection to central energy management systems and BMS.



Reduced noise
and improved
power quality in
load connections



On/off control
of non-critical
loads via
contactors



Panel installation
in the electrical
distribution
board



Central energy
management via
Modbus RTU



Suitable for
industrial lighting
power factor



Consumption
monitoring of
switched loads

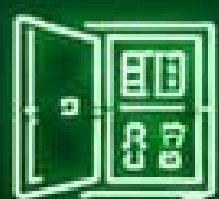


Greenhouse Automation: Smart Control of Pumps, Fans and Misting

Environmental sensor monitoring and central control with **Modbus I/O**



This module can be used in greenhouses to control environmental equipment such as irrigation pumps, fans, and misting systems based on sensor commands. It also monitors the status of door position feedback, cooling pad pumps, and fan operation through its inputs, providing operators with greater control accuracy and faster environmental response, leading to increased yield and efficiency.



DIN rail panel
mounting



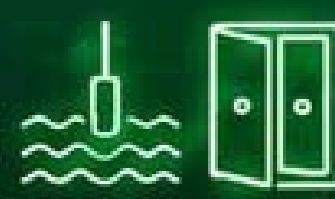
24V DC
power supply



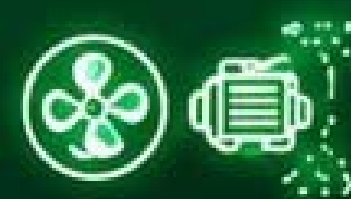
Central control
via Modbus RTU



Suitable for large-
area installations



Monitoring door and
curtain position
switches



Fan-pad control
via relay outputs

Status and Alarm Monitoring System for Industrial Networks; Fast Wiring and PLC Integration via Modbus I/O Modules



In status and alarm monitoring systems, this module can connect alarm and signal lines of equipment to the control center with minimal wiring, via relay inputs. No matter how large or small the number of alarm points, this module performs effectively. It is specifically designed for control panels, automation systems, and protective alarms that require fast, reliable, and scalable performance.

Send status and alarm signals to PLC and HMI via Modbus



Protection of operators against electric shock risks



Fast signaling of hazards, immediately relayed to the alarm system



Suitable for control panels and automation systems



Receiving equipment status (fault/normal) with minimal wiring for improved testability

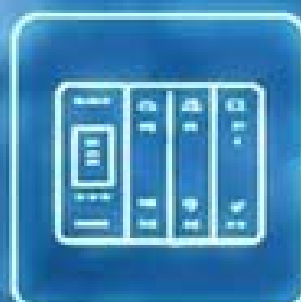


LED indicators for instant display of input and output status

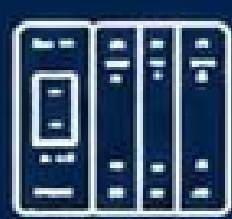


Fan Speed Control and Monitoring of Industrial Fans in HVAC Systems / current, voltage and power factor monitoring and connectivity to PLC / with Modbus I/O Modules.

In HVAC air handling systems, this module is widely used for fan control and monitoring. Fan outputs can be switched on and off based on temperature and humidity sensor inputs, and fan status or faults are read via the module inputs. This provides reliable, automated control for air handling units and industrial ventilation systems.



Suitable for HVAC air handling units



Easy PLC integration with intelligent control



Reduced energy consumption with internal monitoring



Fan status and fault indication with LED outputs



Temperature and humidity monitoring with precise sensor feedback



Reading fan control switch and relay statuses

Factory Automation; Simplified Wiring!

Input/Output Expansion for PLCs and Pneumatic Systems with Modbus I/O Modules



In industrial automation, this module can replace a single input/output module. From valves and proximity sensors for status monitoring, to solenoid valves or relays used to command actuators, mechanisms, and alarms — improved testability and reduced pneumatic system wiring complexity are key benefits of this solution.



24V DC
power supply



4 relay outputs
for actuator control



LED indicators for fast
on-site troubleshooting



Connection to PLCs
via Modbus RTU



Suitable for receiving
digital signals from sensors



Internal isolation for increased
stability in industrial environments

Smart Monitoring Systems; Remote Monitoring of Pressure, Temperature, and Flow

Fast Wiring and Direct Connection to PLC and HMI with Modbus I/O Modules



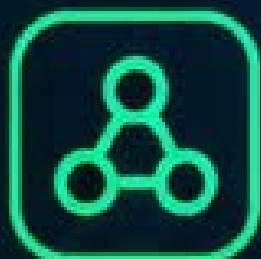
In smart monitoring systems, this module can receive the status of sensors, alarms, and various equipment transmitters while simultaneously controlling the equipment's output relays. Via Modbus RTU connection, data is instantly reported to the PLC, HMI, or central monitoring software, enabling real-time equipment status monitoring and remote control of the process.



Equipment control with 4 output relays of 1 Amp



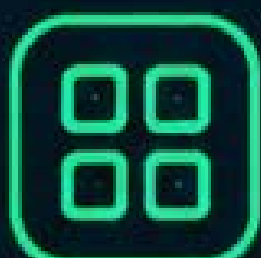
Reduced noise using internal isolators



Connection to central systems via Modbus RTU



Display of input, output status, and network link with onboard LEDs



Receiving sensor status from 4 independent inputs



Increased safety by cutting off equipment power after network disconnection

: Smart Protection for Your Safety

Monitor and protect electrical systems in real time,
with Modbus-based remote I/O modules.



In the modern electrical system, the Modbus I/O module acts as a bridge between the field devices and the main control system. It collects and transmits real-time data from multiple channels, providing early detection of abnormal conditions such as overcurrent, overvoltage, and other faults, enabling quick response and ensuring the stable, safe operation of your equipment.



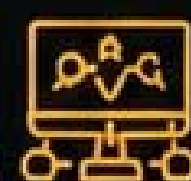
Supports
Modbus protocol
for reliable
communication



Optical isolation
for high stability
and anti-interference



Supports multiple
input/output channels
for flexible
configuration



Real-time monitoring
for quick fault
detection

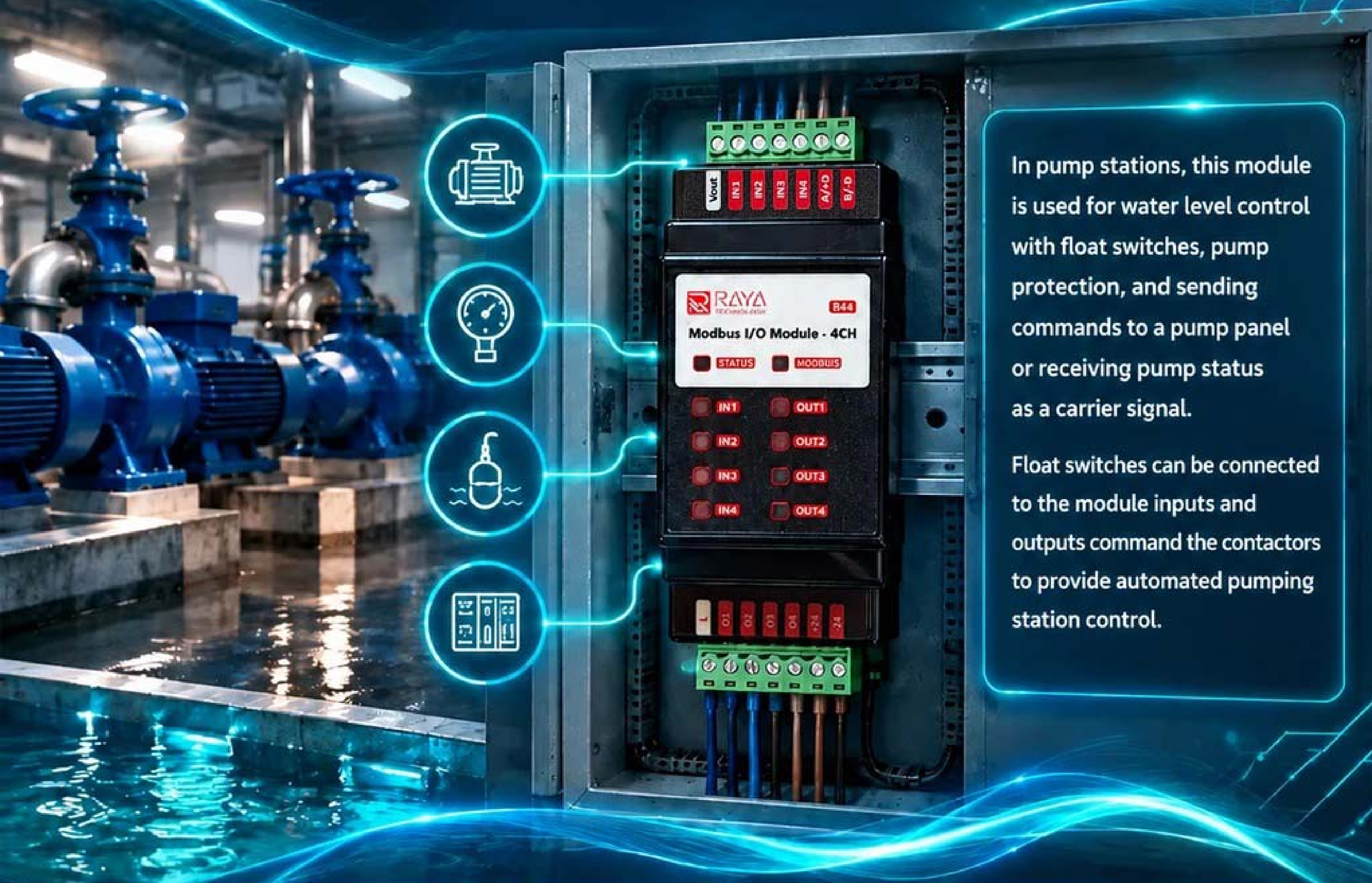


Multiple protection
functions: overcurrent,
overvoltage, and
over-temperature



Quick alarm response
for timely handling
and enhanced
safety

Pump and Pumping Station Control / Status feedback, command to contactors and connection to PLC / with **Modbus I/O Modules**

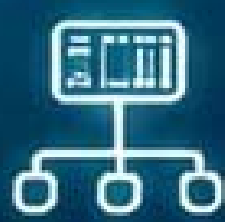


In pump stations, this module is used for water level control with float switches, pump protection, and sending commands to a pump panel or receiving pump status as a carrier signal.

Float switches can be connected to the module inputs and outputs command the contactors to provide automated pumping station control.



Suitable for
controlling motors
and pumps



Integration with PLC
via RS-485



Status indication
with LEDs



Higher protection
in harsh
environments



Water level or
pressure control



Reading limit
switch status

Remote Control of Industrial Equipment and Solenoid Valve Drivers

On/Off Status Feedback and PLC Connection with Modbus I/O Modules



For processes that require remote equipment control, this module is an ideal choice. Using the RS-485 bus with Modbus RTU protocol, it can command the status of contactors and control valves or connect them to a central PLC for industrial process control. The presence of output relays enables switching and control of various equipment, making it an ideal solution for on/off remote control.



Noise immunity on
the RS-485 bus

Remote actuation via
Modbus Function 0X06



Installed in industrial
electrical panels with
standard rail

Equipment control over
long distances via
RS-485 network



Ability to update Modbus
addresses on the fly

Suitable for on/off control
of pumps, fans, solenoid valves,
and motors

