

Adquio Mini IOs

**6 digital inputs and 4 outputs in
a compact format**



Reference: ADQ-SA-4DO-6DI

Category: ADQUIO · EXPANSIONS

DESCRIPTION

Adquio Mini IOs is a compact expansion module that adds 6 digital inputs and 4 digital outputs to the ADQUIO controller. It integrates push buttons, detectors, dry contacts, limit switches, relays and other field devices, expanding monitoring and control capacity without replacing the main controller.

It communicates with the controller via RS485 Modbus RTU as a slave device, allowing installation close to the equipment it controls. This reduces cable runs, facilitates future expansions and simplifies signal distribution in HVAC, lighting, pumping, alarm and technical control installations.

BENEFITS



Detection and control in a single module

6 digital inputs for status detection and 4 digital outputs for controlling loads: relays, indicators, signals, etc. from the Adquio controller logic or other systems.



Expand the system without modifying the wiring

Connects to the controller's existing RS485 bus. No changes to the system architecture are required to add temperature measurement points.



Compact format

Compact design for DIN rail mounting, easily integrated into any electrical cabinet, even where space is limited. Its format optimizes the internal layout of the panel.



Protected input signals

The inputs include overvoltage protection and activate from 5V, making them compatible with most standard field signals.

TYPICAL APPLICATIONS



Door and access control

Door opening/closing detection and control of locks or barriers integrated into the automation logic.



Signalling and alarms

Reading detector signals and activating indicators or sirens as part of the building control system.



Presence-activated lighting

Occupancy detection using digital sensors and zone-based lighting circuit control.



Legacy system integration

Connect existing equipment with digital outputs to the Adquio platform without replacing the field infrastructure.



Retail and premises

Shop-window lighting control, signalling and opening detection in small and medium-sized installations.



Is this product part of your project?

Contact us and we will prepare the complete technical proposal.



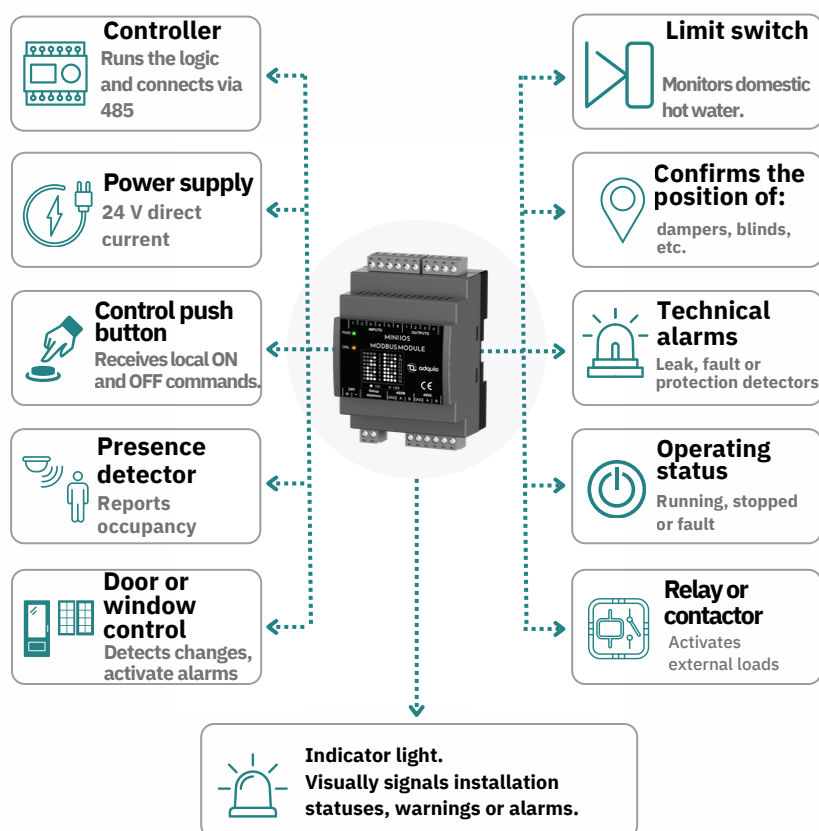
WHEN TO CHOOSE ADQUIO MINI IOS

Choose Adquio Mini IOs when the project needs to detect field statuses and control digital loads in a compact format, or when a distributed Modbus extension point is required.

Choose Adquio MINI IOs when your project includes any of these scenarios:

- **Push-button and detector monitoring**
The installation has push buttons, presence detectors, limit switches or other digital sensors that must be integrated into the control logic.
- **Control of relays and discrete signals**
The project needs to activate external relays, light indicators or other loads that respond to 24V digital signals.
- **Distributed node in large installations**
A control point is needed at a remote location that can also manage local Modbus devices.
- **Limited space in the panel**
The electrical panel has very limited space and the most compact format possible is required.
- **Fast input and output expansion**
The system already has an ADQUIO controller but needs more digital signals without replacing the main unit or making major changes to the panel.

TYPICAL ARCHITECTURE



TECHNICAL SPECIFICATIONS

Reference	ADQ-SA-8PT1000
Power supply	24V DC nominal - 28V DC maximum
Consumption	15 mA nominal, 20 mA maximum
Communication	1 × RS485 Modbus RTU slave
Nodes per RS485 port	Up to 16 modules
Installation	35 mm DIN rail • electrical cabinet - IP20
Operating temperature	0°C to +60°C
Certifications	CE and RoHS
Compatible with	Adquio mini, Adquio Lite, Adquio Micro Server or any controller with Modbus RTU support
Maximum per controller	Up to 64 on Adquio Mini and Lite, up to 32 on Adquio Micro Server
Digital inputs	6, activated from 5V, overvoltage protection
Digital outputs	4, 24V DC, with power transistors



Integrated security



Simple configuration



Integration without limits



Technical support and guidance

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