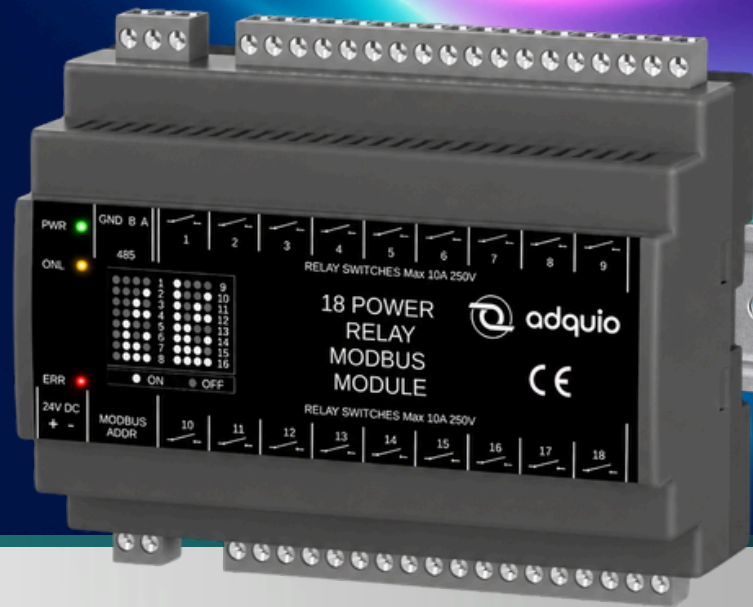


Adquio 18 Relay

18 power relays for direct load control



Reference: ADQ-EXP-MB-18R-10A

Category: ADQUIO · EXPANSIONS

DESCRIPTION

Adquio 18 Relay is an expansion module that adds 18 relay outputs to the Adquio controller, enabling direct control of high-power electrical loads — lighting, motors, pumps and valves — from the building automation platform.

It connects to the controller via an RS485 cable and integrates into the control logic like any other device in the installation. No additional programming required: the controller manages it like the rest of the systems.

BENEFITS



Direct control of power loads

18 relay dry contacts, each capable of handling up to 10A at 250V AC. Lighting, motors, pumps and valves under direct control from the Adquio platform.



Expand the system without modifying the wiring

Connects to the existing controller's RS485 bus. No need to modify the main electrical panel or replace anything already installed. Up to 16 devices per bus.



Up to 64 modules per controller

Scale the installation by adding modules as the project grows, without changing the controller or system architecture. Up to 1,152 relays in a single controller.



Real-time status visibility

Each relay reports its status to the controller in real time and on its front panel. The system records changes, alarms and activation histories.

TYPICAL APPLICATIONS



Multi-zone lighting

On/off control of dozens of independent lighting circuits by zone, floor or schedule.



Pumps and climate control

Activation and deactivation of circulation pumps, fan coils, HVAC units and other climate-control equipment.



Access control and security

Opening of doors, barriers, alarms and access systems integrated into the building automation logic.



Office buildings

Centralized management of all electrical circuits with time scheduling and remote control.



Industrial installations

Activation of machinery, ventilation and other field systems coordinated with the SCADA or BMS.



Is this product part of your project?

Contact us and we will prepare the complete technical proposal.



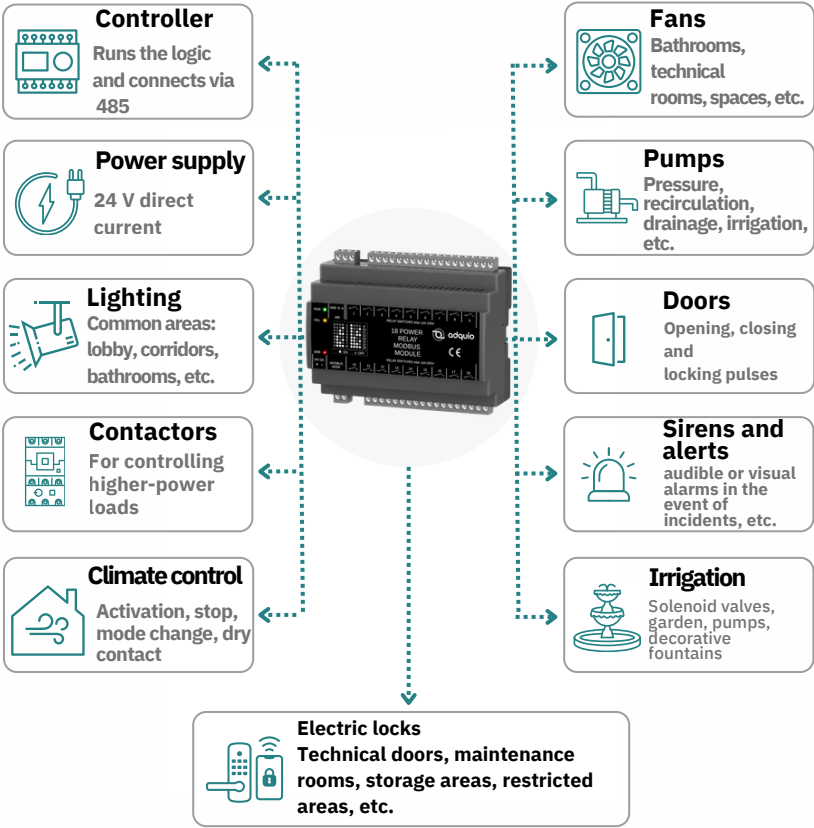
WHEN TO CHOOSE ADQUIO 18 RELAY

Choose the Adquio 18 Relay when the project needs to control many independent electrical circuits from the Adquio platform.

Choose the Adquio 18 Relay when your project includes any of these scenarios:

- **Multi-circuit lighting control**
The installation has many independent lighting circuits that must be switched on, switched off or timed autonomously.
- **Power-load switching**
The project includes motors, pumps, solenoid valves or other loads that require a relay dry contact for activation.
- **Expansion of an existing system**
The controller is already installed and more switching outputs are needed without replacing the central equipment.
- **Panels with limited space**
The cabinet has limited space and the highest relay density per DIN rail width is required.
- **Projects with many control points**
Installations with dozens of circuits that must be managed centrally and according to schedules.

TYPICAL ARCHITECTURE



TECHNICAL SPECIFICATIONS

Reference	ADQ-EXP-MB-18R-10A
Power supply	24V DC nominal / 28V DC max.
Consumption	370 mA nominal
Communication	1 × RS485 Modbus RTU slave
Nodes per RS485 port	Up to 16 modules
Installation	35 mm DIN · IP20 cabinet
Operating temp.	0°C to +60°C
Certifications	CE and RoHS
Compatible with	Adquio mini/Lite/Micro Server or Modbus RTU
Maximum per controller	Up to 64 Mini/Lite; 32 Micro Server
Relay outputs	18 dry contacts
Maximum load per relay	10A at 240V AC
Maximum operations	50,000 before failure
Operating time	10 ms maximum