



## IO9001 Module (connects through auxiliary port), includes 1 relay (high voltage)

**Product #:** 9494500  
**AED Price:** Contact Hach

The IO9001 Module adds versatility to the AS950 automatic sampler. The IO9001 is available for simple applications that only require 1 high voltage relay. For a broader range of inputs and outputs, see the IO9004.

### Maximum versatility

The IO9000 Module allows the use of digital and analogue inputs and outputs with the AS950 sampler. With the IO9000 module, the AS950 provides more input and output options than any other Hach sampler before it. For added versatility the IO9000 is available in two versions; IO9001 is available for simple applications that only require 1 high voltage relay while the IO9004 is fully loaded. See specifications for more detail.

### Outputs

The digital outputs can be used to indicate an alarm or an event. Analogue 0/4-20 mA outputs can be used to send information to a SCADA system for parameters such as level, velocity, flow and pH. Examples of alarms and events include: sensor outside of limits (flow related, water quality related, internal temperature or ambient temperature), program started, program completed, sample being taken, bottle full (single bottle), pump running forward, pump running in reverse, pump error, distributor error, power failure, or main battery low.

### Inputs

Analogue 0/4-20mA inputs can be used to trigger a sample from water quality sensors or flow meters and can be logged.

### Relays

Like the digital outputs, these relay outputs are used to indicate alarms or events. The difference is that relays can be used for switching AC mains line voltage to control higher power functions. Examples for use are for a warning light or sound signal, switching a diversion valve or gate or a control signal to another machine.

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## Specifications

Altitude:	2000 Meters
Analogue inputs:	None
Base Type:	N/A
Cable length:	1.22 m
Certifications:	CETLus
Digital outputs:	None
Dimensions:	Enclosure with supplied mounting brackets: 24.7 cm (9.71") length, 30 cm (11.82") width, 13 cm (5.12") depth
Enclosure waterproof rating:	IP66 / NEMA 4X
Housing material:	Polycarbonate (UL94 VO), hardware 18-8SS
Inputs:	Enclosure inputs cable entry:  - High voltage ports: 4 cable bushings (accomodate cable diameters 4.3 - 11.4 mm)

- Low voltage ports: 4 cable bushings (accomodate cable diameters 4.3 - 11.4 mm)

All ports accept user installed ½" (16 mm) trade size conduit

Model: IO9001 - 1 Relay

Mounting: Mounting brackets and hardware included.

Operating conditions: Temperature: -40 - 50 °C Humidity: 100% (non-condensing)

Power input: Powered by controller

Power requirements (Voltage): N/A

Probes included?: N/A

Rain gauge input: N/A

Relay functions: Form C (SPDT)

- Voltage rating (contacts open): 20 VAC-RMS to 230 VAC-RMS

- Current rating (contacts closed): 6 mAAC-RMS to 500 mAAC-RMS

Wire size: 20 AWG to 14 AWG solid or stranded copper

Sample container: N/A

Storage conditions: Temperature:-40 to 80 °C, Humidity: 100% (non-condensing)

Weight: 2.5 kg