



Quad Ancillary Modules

Common Features:

- Compact DIN rail mount design saves space
- Lower installation costs than individual modules
- Built-in line isolators improve fault tolerance
- Status LED's provide rapid diagnostics
- Two way IR communication to the 850EMT programming tool speeds up commissioning
- Monitors input power supply for improved system integrity
- VdS and CPD approved to EN54-17, EN54-18 and EN54-13

The Quad Ancillary Modules form a versatile new range of multiple input and output modules for use with MZX technology systems. The range consists of:-

QIO850 - Quad input / output module – provides four monitored inputs and four relay / HVR outputs

QMO850 - Quad monitored output module – provides four monitored outputs

QRM850 - Quad relay output module – provides four relay / HVR outputs

The modules are designed for compactness and ease of installation. They share a number of common features that provide many user benefits across multiple applications.

Quad Ancillary Modules

Quad Input/Output Module (QIO850)

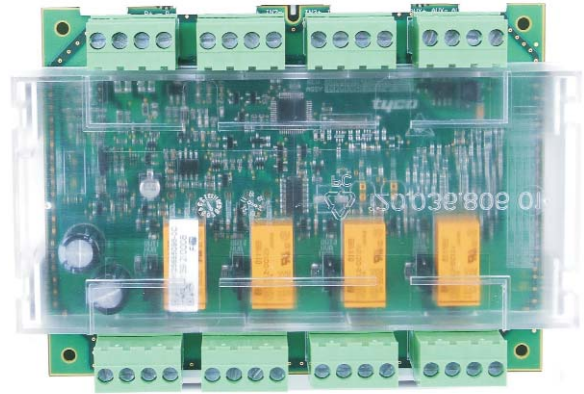
The Quad Input/Output Module connects directly to the MZX Digital loop and provides four change over relay outputs, four High Voltage Relay (HVR) outputs and four monitored inputs. It is loop powered and therefore does not need a power supply, however it can monitor the presence of a local 24Vdc or 48Vdc power supply.

Features:

- Four change over relay outputs and four monitored inputs each individually programmable for a wide range of applications
- Four HVR drivers. No need for a local power supply to switch 240Vac mains
- Inputs can monitor normally open or normally closed contacts
- The relay contacts are monitored and users are alerted to "output stuck" conditions
- Uses 2 addresses when configured for 2 inputs with 2 associated outputs
- Uses 4 addresses when configured for 4 inputs with 4 associated outputs
- Uses 8 addresses when configured for 4 inputs and 4 independant outputs

Applications

- BS7273-4 door monitor and control (UK only)
- Damper control
- Sprinkler monitoring
- Interface to conventional systems / shop interface
- Interface to medical gas panels / gas detection systems
- Interface to extinguishing systems / 3rd party detectors
- Local isolation input and control
- 240VAC secondary sounder monitor and control via an HVR module



Quad Monitored Output Module (QMO850)

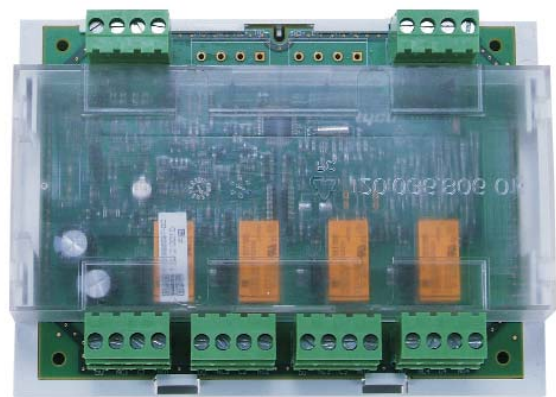
The Quad Monitored Output Module connects directly to the MZX Digital loop and requires a 24Vdc or 48Vdc power supply. It provides four monitored outputs for connection to conventional sounder circuits or auxiliary relays.

Features:

- Four polarity reversal monitored outputs
- Class A or Class B wiring for versatility
- Uses 2 addresses when configured for 2 outputs
- Uses 4 addresses when configured for 4 outputs

Applications

- Conventional sounder monitor and control
- Aux relay monitor and control



Quad Ancillary Modules

Quad Relay Output Module (QRM850)

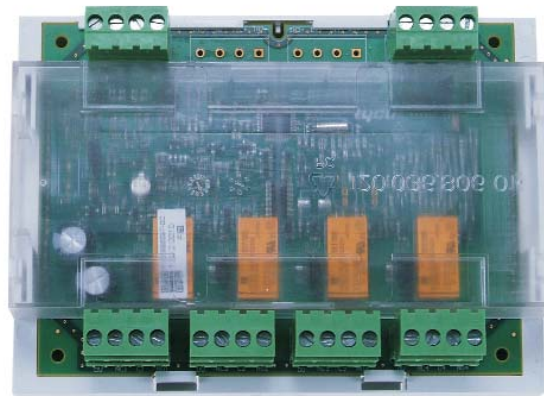
The Quad Relay Output Module connects directly to the MZX Digital loop and provides four change over relay outputs or four High Voltage Relay (HVR) outputs. It is loop powered and therefore does not need a power supply, however it can monitor the presence of a local 24Vdc or 48Vdc power supply.

Features:

- Four change over relay outputs each individually programmable for a wide range of applications
- Four HVR drivers. No need for a local power supply to switch 240Vac mains
- The relay contacts are monitored and users are alerted to "output stuck" conditions
- Uses 2 addresses when configured for 2 outputs
- Uses 4 addresses when configured for 4 outputs

Applications

- A/C control
- Plant control
- Smoke control systems
- Lift control



Technical Specifications

	QIO850	QMO850	QRM850
System Compatability	Any MZX Fire Alarm Controller configured with MZX Consys Version 20.0 or later		
Mechanical			
Dimensions (H x W x D)	103 x 134 x 49 mm		
Weight (KG)	0.15		
Electrical			
Voltage	40VDC		
Current	1.1 mA (standby), 5.9 mA (alarm)	2.1 mA (standby), 6.7 mA (alarm)	1.1 mA (standby), 5.9 mA (alarm)
Wire Size	0.5mm ² to 2.5mm ²		
Output Circuit (Relay Contacts)	Nominal switching capacity 2A at 30VDC (resistive load), Maximum switching power 60W, 125VA (resistive load)		
Auxiliary Voltage Input	Auxiliary voltage 24VDC to 55VDC (threshold voltage for auxiliary voltage fault indication: 18VDC +/- 1VDC). Auxiliary voltage 48VDC to 55VDC (threshold voltage for auxiliary voltage indication 36VDC +/- 2VDC).	Auxiliary voltage 24VDC to 55VDC (threshold voltage for auxiliary voltage fault indication: 18VDC +/- 1.5VDC). Auxiliary voltage 48VDC to 55VDC (threshold voltage for auxiliary voltage indication: 36VDC +/- 2.5VDC). Wiring monitoring (threshold resistance for auxiliary voltage fault indication 50 ohms +/- 5 ohms).	Auxiliary voltage 24VDC to 55VDC (threshold voltage for auxiliary voltage fault indication: 18VDC +/- 1VDC). Auxiliary voltage 48VDC to 55VDC (threshold voltage for auxiliary voltage indication 36VDC +/- 2VDC).
Environmental			
Operating Temperature	-25°C to +70°C		
Storage Temperature	-40°C to +80°C		
Operating Humidity	Up to 95% Non condensing		
Electromagnetic Compatability	EN50 130-4 for immunity EN6 1000-6-3 for emissions		
Approvals	EN54-17, EN54-18 and EN54-13		

Ordering Information

555.800.071	Quad Input/Output Module (QIO850)
555.800.070	Quad Monitored Output Module (QMO850)
555.800.073	Quad Relay Output Module (QRM850)