

1009970500

Remote Input/Output Controller

Remote control unit



Description

- ✓ 8 inputs - programmable to normally open or closed
- ✓ 18 outputs
- ✓ Provides connectors for 3 MRBD Multi-Relay Boards with drivers
- ✓ Easy connection in mounting box (included)
- ✓ Easy programming of the unit from the AlphaPro programming tool for PC
- ✓ Connects by RS485 or RS232 to the AlphaCom exchange
- ✓ When using RS485, up to 10 units can be chained
- ✓ With RS485 the maximum distance from the exchange is 1 km
- ✓ Status LED on the board
- ✓ Built-in error indication
- ✓ Power must be supplied locally if the RIO unit is mounted outside the exchange room

The Remote Input Output Unit (RIO) is a flexible way of connecting digital inputs/outputs to the AlphaCom exchange. The devices can operate on point to point connections (RS 232) or on a multidrop bus (RS 485). Each RIO unit has 8 inputs and 18 outputs. The outputs are connected to the relayboard MRBD. Each MRBD has 6 relays. If all 18 outputs are used, 3 MRBD boards are

required. The RIO and the MRBD are interconnected with a cable included with the MRBD. The RIOs can be mounted away from the exchange room, thus reducing cabling. If response time is critical (<2sec), as in audio control, the internal RCIs and RCOs in the exchange should be used.

The RIO is used for:

- ✓ Distribution of remote control outputs (RCOs) from the AlphaCom exchange such as door opening, video camera control, additional call indications etc.
- ✓ Connection of technical alarm inputs (RCIs). The alarm inputs can be signals coming from temperature control devices, fire panels, burglar alarms etc. The AlphaCom itself provides 6 RCI (2 in ACM) inputs, this can be increased to 140 RCIs by using the maximum number of RIOs.

The RIO units are monitored by the AlphaCom exchange. Error messages can be displayed on the system station in case of device error.

All programming takes place in AlphaPro. The functionality of the resources on the RIO is identical to the internal RCIs and RCOs of the exchange. The device address for the unit is given by switch setting.

Specifications

GENERAL

Current consumption	150 mA
Connection type	RS485/ RS232, 9600 baud /8 bit /No parity/1 stop bit
Cabling between RIO and the AlphaCom exchange	1 pair for data, 1 wire for GND reference
Number of inputs	8
Number of outputs	18
Worst case response time	< 2 sec
Weight	0.55 kg / 1.21 lb.
Dimensions (w x H x D)	255 mm x 125 mm x 50 mm, 8.77 " x 4.88" x 1.95"
Recommended room temperature	0°C to 35°C, +32° F to +95° F
Humidity Range (non-condensing)	10% - 90% RH
Connectors	Female D-sub conn. Phoenix conn. AMP MTA 100 connector

ORDER NUMBER	DESCRIPTION	SHIP WEIGHT
100 9970 500	Remote Control In/Out Unit RIO	0.55 kg / 1.21 lb.
Supplementary equipment:		
100 9970 101	Power Distribution Board, PDB (If powered from the AlphaCom exchange)	0.55 kg / 1.21 lb.
	Local 24 V DC Power Supply (Not required when powered from the exchange)	

Accessories



MRBD

Multi Relay Board