

- Flexible Modbus-RTU IO Module
- 4 Channels of Dry Contact Relay Output (NO / NC)
- LED Status Indication on all Channels
- Operating Temperature: -40° to 80°C
- 1000V RMS Isolation
- Fully Compatible with the ioPak WDL Radio
- Works with the ioPro IOMAP for Simple Mirrored IO



The ioPro 4RO module has 4 NO / NC relay outputs. These modules may be used when a higher drive capability is required, or when isolation between outputs are required.

The outputs are written to by the Modbus master device such as a PC or PLC. Each output can be individually switched on or off, or all outputs can be set up at the same time by writing a single number to the output register which represents the state of all outputs.

An output watchdog timer can be configured to switch off all the outputs if there has been no communications with the module for up to 255 seconds. A value of 0 seconds will disable this timer and the outputs will remain in the last commanded state.

Can be used with ioPro DI16 and an IOMAP, but only first 4 input channels are mapped.

### IO Specifications

Baud Rates:	2400 to 115,200 bps
LED Status:	
General:	Power, RS-485 TX and RX
Channel:	ON / OFF
ModBus Address:	1 to 127 via Front DIP Switch
IO Mix:	4 Relay Outputs (NO / NC)
Field Supply V:	NA
Field Supply I:	NA
Out V / Ch :	28VDC, 220VAC (Max)
Out I / Ch:	1A, 0.5A (Max)

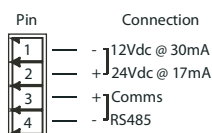
### General Specifications

Isolation:	1000 Vrms (Field to Logic)
	1000 Vrms (Channel to Channel)
Humidity:	95% non-condensing
Temp (Operate):	-40 to 80 °C (-40 to 176 °F)
Temp (Storage):	-40 to 85 °C (-40 to 185 °F)
Power (V):	22 to 26 VDC
Power (W):	400 mW
Dimensions:	22.6 x 109 x 97.5 mm
(W x H x D)	(0.89 x 4.29 x 3.84 in)
Weight:	100 g ( 3.5 oz)

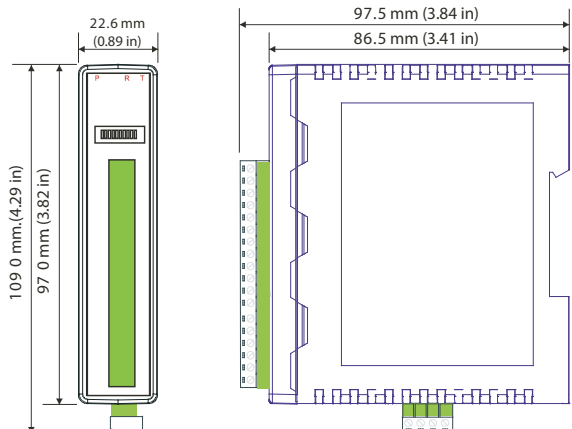
For more detailed specifications and other usage information please refer to the ioPro Product Manual available on the ioSelect web site.

<b>Ordering Information:</b>	<b>IOPRO-4RO</b>	<b>4 Channel Relay Output Modbus IO Module</b>
<b>Accessories:</b>	<b>IOPRO-WDL</b> <b>IOPRO-IOMAP</b>	<b>Wireless Data Link (900MHz FHSS, 0.1 Watt to 1.0 Watt)</b> <b>Mirrored IO Mapping Module</b>

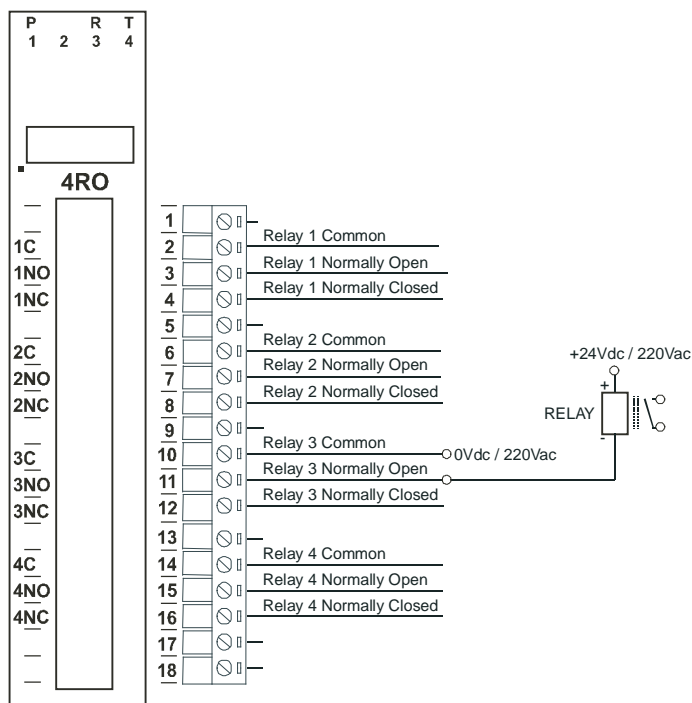
## Wiring (Power and Comms)



## Drawing



## Wiring (Field)



## DIP Switch Definition

SWITCH	FUNCTION	DESCRIPTION
1	NODE ID +1	Node ID's from 0 to 127 are set up using switches 1 to 7
2	NODE ID +2	"
3	NODE ID +4	"
4	NODE ID +8	"
5	NODE ID +16	"
6	NODE ID +32	"
7	NODE ID +64	"
8	-	Not Used.
9	MODE	Selects Master (ON) or Slave Mode (OFF). Master mode is used when the module is connected to a single digital input module. Slave mode is used when the module is to be polled either by the IO Mapper or by a PC.
10	BAUD RATE	Selects 9600 (OFF) or Programmed Baud Rate (ON)

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