



EYTECH

HIO

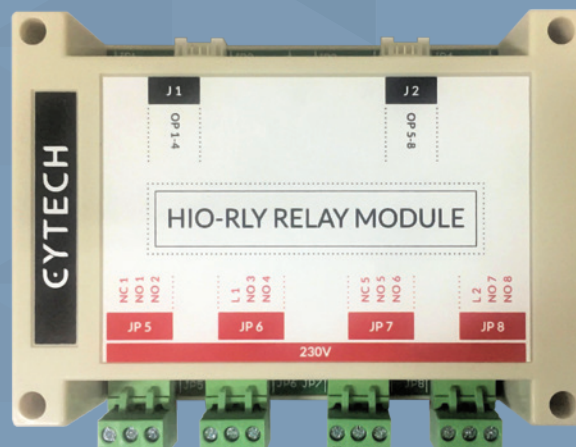
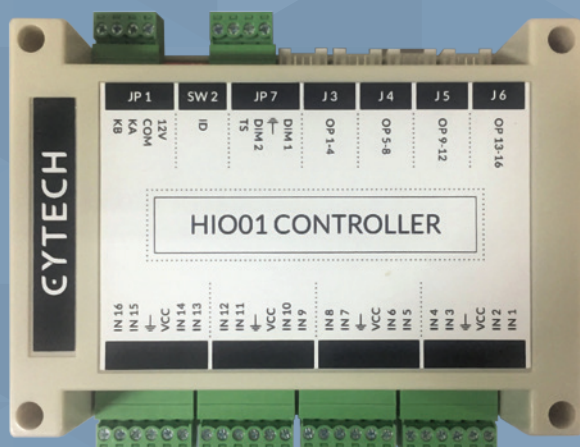
HOTEL ROOM CONTROLLER

LOGIC CONTROLLER FOR LIGHTING, BLINDS AND APPLIANCES

The HIO Hotel I/O (HIO) is a Hotel Room Logic Controller for Lighting, Blinds and appliances control. It can be connected to ELV (Extra Low voltage) switches with push buttons and status LEDs, and can implement energy saving functions.

One of the advantages of the HIO is the ease and flexibility of configuration of each Input/Output Channel to the required function.

The HIO can be used in low to mid-end Hotels and Service apartments with features that are only available in high end systems.



HIO01 CONTROLLER

HIO RELAY MODULE

ENERGY-SAVING

OCCUPANCY SENSING

Works with door contact and Motion detector(s) to detect occupancy. A Programmable timer causes lights to be switched off in sequence followed by power points and Airconditioner. Any motion or operation of any switch will revert to the previous lights and output settings.

TOILET OCCUPANCY SENSING

The toilet occupancy function senses motion and turns on the toilet lights automatically

WINDOW /AIRCONDITIONER LINKAGE

If the window is opened for a programmable time, the airconditioner can be switched off, until the window is closed again.

PROGRAMMABLE SCENES

Scenes can be assigned to any switch/channel to turn on a selectable group of lights:

- Welcome Scene when keycard is inserted or occupancy detected in an unoccupied room
- Courtesy Light Scene when door is opened in an unoccupied room
- Master On and Off Scene
- Toilet Occupancy Scene
- 4 Programmable Scenes

EXTERNAL INTERFACES

Interfaces to Modbus, KNX, and C-Bus are possible via Cytech's UCM< Interfaces.



SPECIFICATION

- Standard DIN Rail housing for HIO01, HIO-RLY
- Power Supply: 12V 1 A DC
- Low Power Microcontroller with Flash memory for firmware and configuration settings.
- Input/Output Channels: 16 Dry Contact momentary switches parallel with LED. The same I/O channel can drive LED and read Input pushbutton state. The switch LED can be dimmed in the off state.
- Analog Outputs: 2 x 0-10V DC
- Communications on Internal Bus: RS485. Up to 15 HIO on a local RS485 network.
- Temperature Sensor (external) Accuracy: +/- 1 deg C
- Output Type on HIO: 16 Open Collector outputs for connection to HIO-RLY relays
- Relay Rating (HIO-RLY): 6 Amps x 8 channels. Quick connect Cable connectors between HIO and HIO-RLY
- On HIO-RLY, 6 relays are Single Pole Single Throw (SPDT), 2 relays are Single Pole Double Double Throw (SPDT) with Normally Open and Normally Closed contacts.

Hio01

Write to Hio01 Read from Hio01 Reset to Default Get Status

Hio01 Properties Scenes Channels 0-10V Output

Number	Type	Register Type	Register Number
1	Keycard		
2	Dimmer 1	Unassigned	
3	ELV Switch	Unassigned	
4	ELV Switch	Unassigned	
5	ELV Switch	Unassigned	
6	Doorbell		2
7	Secondary Relay		
8	Unused		
9	Door Sensor		1
10	Window		
11	Room PIR Sensor		
12	Make-Up Room		
13	Do Not Disturb		
14	Unused		
15	Unused		
16	Unused		

Hio01 Channel Properties

Number	1
Type	Keycard
Comments	

Hio01

Write to Hio01 Read from Hio01 Reset to Default Get Status

Hio01 Properties Scenes Channels 0-10V Output

HIO Properties

Id	1
Name	Hio01
Type	HIO01
Version	7.003
Latest Version	Unknown
Serial Number	Unknown
User Comments	

[Display Manual](#)

HIO01 Properties

Room Id	Unassigned
Light Off Dim Level	1
Share Switch Input/LED Output Pin	☒ Yes
Occupancy Indication by Doorbell	8
Master Switch Setting	No Action
Temperature Sensor No	Unassigned
Temperature Sensor Name	
Blinds Operation Mode	0
Keycard Off Timer	5 Seconds
Primary Relay Occupancy Timer	20 Seconds
Secondary Relay Occupancy Timer	30 Seconds
Lighting Occupancy Timer	10 Seconds
Courtesy Timer	10 Seconds
Boot-up Timer	2 Seconds
Window Timer	5 Seconds
Lighting Sequence Timer	3 Seconds

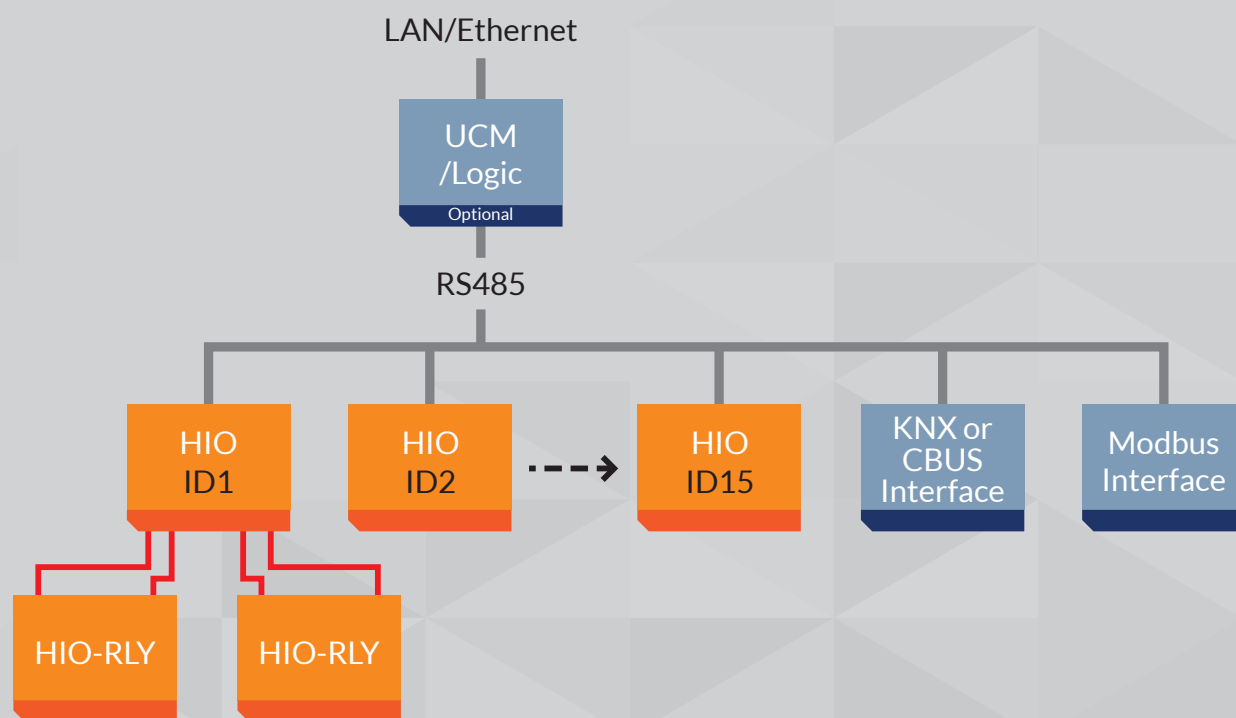
PROGRAMMING

The HIO is easy to program using the Comfigurator Software tool. Each I/O channel is assigned to a function from a drop-down list.



ELV SWITCH

HIO CONNECTIONS



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