

# Digital I/O Module

## Features



- Ruggedised, State-of-the-art Micro-controller based system.
- Ideal for SCADA Applications.
- Optical isolation for input / output
- Serial communication on RS485 with MODBUS RTU protocol.
- Standard DIN rail mounting ABS moulded cabinet.

## Application

Falcon DIDO24, Digital Input/output module with RS485 connectivity which is best suitable for SCADA. This module can also be used as slave module with PLC.

Digital Inputs are optically isolated inputs and accepts potential free contact signals. These modules can be used for sensing level switches, proximity switches, door switches, alarm/trip conditions in panel, pump/motor status, equipment status etc.

Digital Outputs are optically isolated open collector outputs to drive external relay module. These outputs can be used to perform supervisory control actions like giving alarms, operating valves, switching ON/OFF pumps/motors etc.

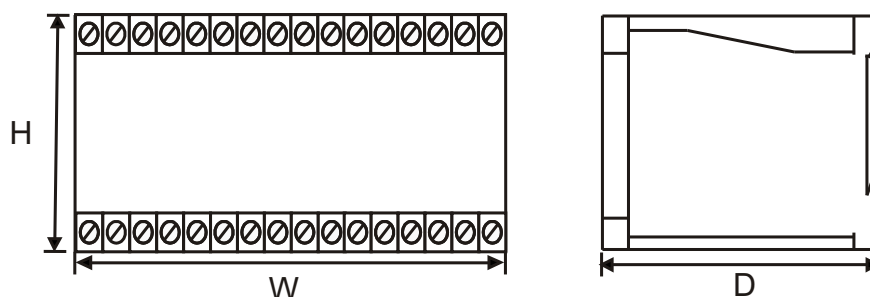
These modules use MODBUS RTU protocol for serial communication. RS485 serial port is provided to make the modules suitable for multi dropping application.

DIP switch is provided for ID and baud rate settings used for serial communication. There are 4 LED indications for system OK, Power and Serial communication status which helps for correct diagnostics of the operation. External excitation is required for sensing potential free inputs.

DIN Rail mounting makes it easy to be fitted in panel.

Module operates on 230VAC supply.

## Dimensional Drawing



# Digital I/O Modules

## TECHNICAL SPECIFICATIONS

No. of Inputs	16
Types of Input	Potential free input or 24VDC level input
No. of Outputs	8
Type of Output	Open Collector o/p. Optional relay o/p through external relay card.
Input Isolation in Volt	1 KVDC
Indications	3mm LED indications for power ON, System OK, Tx, Rx & all input(16 nos.) & output status.(8 nos.)
Excitation Supply	External 24VDC Required
Communication port	RS485 2 wire, Modbus RTU Protocol
Baudrate, Databits, Parity	Baud rate = 9600/19200 BPS -> Settable at power ON from 4 way DIP switch.By default setting ->Data bits = 8, Stop bit = 1, Parity- none.Station ID 1 TO 8 Settable from DIP switch on-line.
Max. polling frequency	MODBUS polling time - 10ms
Supply voltage	230 VAC $\pm$ 10%, 1ph, 50 Hz
Enclosure	DIN rail mount, ABS moulded , 32 terminal box Size : 70 x 150 x 114 mm ( H x W x D )
Operating conditions	Operating Temperature 5 to 55°C ambient
Storage conditions	Storage Temperature -10 to 70°C ambient.

## Ordering Information

**Falcon DIDO 24 - I / O Module**

**Note :** Due to continuous development specifications may change without prior notice


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