FALCON148

Features

☞ Ruggedised, State-of-the-art Micro-controller based system.

☞ Ideal for SCADA Applications.

☞ Ideal for Counter Applications.

☞ Optical isolation for input / output

☞ Serial communication on RS485 with MODBUS RTU protocol.

☞ Standard DIN rail mounting ABS moulded cabinet.

Application

FALCON148 is blind unit with RS485 connectivity which is best suitable for SCADA, Counting applications. This module can also be used as slave module with PLC.

FALCON 148 module is optically isolated inputs, accepts potential free contact signals. This module can be used as a Production Counter, Revolution Counter, Fault Counter, Bottle Filling Counter, Digital Batch Counter, sensing level switches, proximity switches, door switches, alarm/ trip conditions in Panel, pump/ motor status, equipment status etc.

FALCON148 module is 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.

This module uses MODBUS RTU protocol for serial communication. RS485 serial port is provided to make the module suitable for multidropping 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.

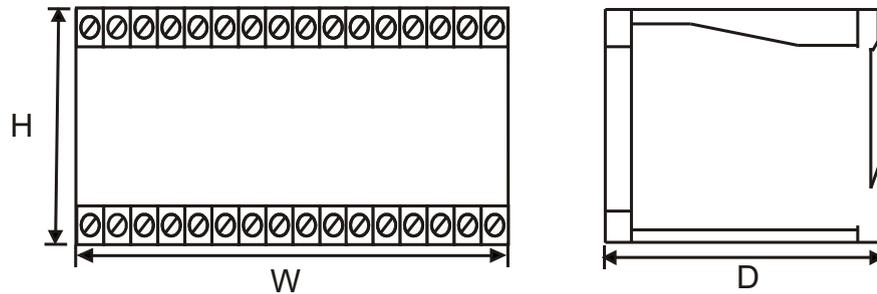DIN Rail mounting makes it easy to be fitted in panel.

Module operates on 230 V AC supply.

FALCON148

No. of Inputs	14
Types of Input	Pulse input 1Hz to 10Hz.
Maximum input amplitude	5VDC/ 12VDC /24V DC > FACTORY SET.
No. of Outputs	8
Input Isolation in Volt	1 KVDC
Accuracy	+/- 0.25 % of count.
Indications	3mm LED indications for power ON, System OK, Tx, Rx & all input(14 nos.) & output status.(8 nos.)
Reset facility	Can reset all counters (14) or individual counter through MODBUS.
Data retention capacity in days	All counters stored in battery backup RAM. 3.3VDC Battery guaranty > 1 Year.
Output Type	Open Collector Output
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.
Supply voltage	230 VAC ± 10%, 1ph, 50 Hz
Enclosure	DIN rail mount, ABS molded , 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.

Dimensional Drawing

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