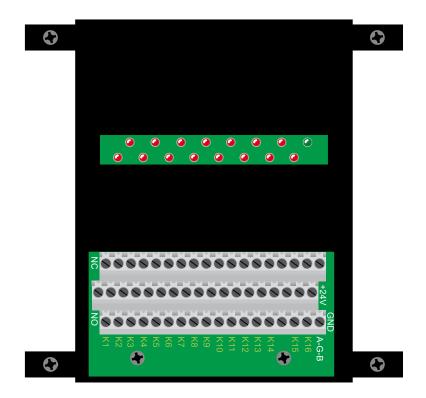


H0400 MODBUS Relay Unit

- MODBUS master or slave mode.
- 15 output relays (NC or NO).
- 15 red LED's with output status.
- 1 monitoring relay (MODBUS communication).
- 1 green LED with MODBUS status.
- Slave units can activate / deactivate any relays.
- Programming by Hyper Terminal (RS232).
- Standard 2-wire MODBUS-RTU protocol.
- Supports all kind of MODBUS units.
- Support analogue readings on the MODBUS
- More functions can activate the same relay
- Multiple units can be connected to the bus.
- Cable length up to 1000 metres on the bus.



Application

H0400 MODBUS Relay Unit provides a cost effective solution, with the possibility of monitoring all kind of equipment connected to a common 2-wire MODBUS.

The relay unit has 16 output relays. Any kind of change of status, of any unit on the bus, can be programmed to activate or deactivate any of the 15 relays. The relay number 16 has a special function. It is normally energized and will be automatically de-energized if there is a loss of communication with one or more

15 red LED's indicates if any of the 15 output relays is activated. A green LED indicate that the connection to all slave units are ok

Function

units on the bus.

H0400 can be programmed and used as master or slave unit. H0400 is delivered as a master unit.

MODBUS master

All available messages from any slave units can easily be read out, into the master unit and activate, or deactivate any of the 15 output relays.

Even messages, with analogue values, can be read out and used for activation or deactivation of relays.

E.g. a specific measuring in the scale from 4-20 mA. can activate the output relays.

More functions can activate the same relay:

The relay is activated all the time ANY of the related conditions is fulfilled.

When the relay is already activated and a new related condition for that relay gets fulfilled, the relay will turn OFF for about 1.5 seconds and then ON again.

MODBUS slave

In Slave mode, H0400 is present on the Bus only as a "listener".

To employ the possibilities of H0400 as a slave, the user should define, so called, relations in the master that define, which messages from other slave units on the Bus, should activate which of the 15 relays.

Please refer to the documentation of the specific master unit.

Programming

For elaborating information regarding programming of the H0400 unit, please refer to the user's manual and the MODBUS RTU Protocol on www.selco.com.



Specifications

H0400 MODBUS Relay Unit

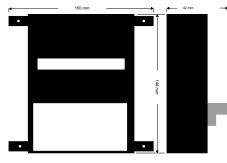


Figure 2. Dimensions

24 Volt Voltage supply Power Consumption 0,2A Ambient temp. Range -20 °C. / +70 °C Monitoring relay contact 24V DC / 1A Via RS232 interface Programming RS232 Bits per second 9600 RS232 Data bit RS232 Parity None RS232 Stop bit RS232 Flow control None 50 hours before final test EMC Maritime application standards IACS E10, IEC 60553, IEC 60945 Industrial application standads EN 61000-6-2, EN 61000-6-4, EN50263 Weight Dimension (mm) 144 x 151 x 64 (H x W x D)

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Termination

All possible connections, by the terminals, are listed in the table below.

Output relay	NC	COM	NO	BUS	POWER
K1	1	2	3		
K2	4	5	6		
K3	7	8	9		
K4	10	11	12		
K5	13	14	15		
K6	16	17	18		
K7	19	20	21		
K8	22	23	24		
K9	25	26	27		
K10	28	29	30		
K11	31	32	33		
K12	34	35	36		
K13	37	38	39		
K14	40	41	42		
K15	43	44	45		
K16 (monitoring relay)	46	47	48		
A				49	
G				50	
В				51	
- voltage					52
+ voltage					53
GND					54

Figure 3. Table of Termination

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