



LED WARNING SIGN WITH HORN TYPE EK30

FEATURES

- Bright LEDs
- Flashing or continuous light
- Pre-select text or pictograms in different colours
- Independent programming of LEDs and sounder in different alarm modes
- Options for single or double-sided signs
- Simple installation





Register address	Modbus function	Function format	Format hex	Possible values / description
0	03 - Read holding registers 06 - Write single register	Controlling	0xXY	X: Operation mode (6 modes) ** 0 = OFF 1 = Alarm light flash w/o horn 2 = Alarm light flash with horn 3 = Permanent alarm light w/o horn 4 = Permanent alarm light with horn 5 = Alarm light off, only horn Y: Blinking frequency (3 modes) 0 = 1 Hz 1 = 2 Hz 2 = 0,5 H
2	03 - Read holding registers 06 - Write single register 16 - Write multiple registers	Volume	(DEC)	0..100 % Factory default 100 %
3	03 - Read holding registers 06 - Write single register 16 - Write multiple registers	Setting horn	(DEC)	Switch off time 0..14 400 s Factory default 180 s 0 = No switch off time
5	03 - Read holding registers 16 - Write multiple registers	Bus address		Values 1..247 Factory default 1
6	03 - Read holding registers 16 - Write multiple registers	Baudrate Format	0xYYYX	YYY: Baudrate values 240, 960, 1920, 3840 (x 10 real value) Factory default - 960 X: Format (4 modes) 0 = 8N1 1 = 8E1 2 = 8N2 3 = 8E2 Factory default 0 = 8N1
7	03 - Read holding registers 16 - Write multiple registers	Safety code (0x8F8F)	(Hex)	Register 5+6+7 must be written in one block! *

Changing BUS settings on the device requires utilizing modbus FC (functioncode) 16.

* - Register 7 acts as a safety mechanism when writing to registers 5 and 6. To configure the baudrate and bus address, Modbus Function Code 16 (write multiple registers) must be used to write to registers 5, 6, and 7 simultaneously. For example, when configuring the baudrate to 9600 with 8 bits of data, no parity, and 1 stop bit, and the bus address to 5, then use FC 16 to write to address 5 these bytes: [0x0005, 0x9600, 0x8F8F]

** - Register 0 is light and horn settings. There are 6 modes for operation of the alarm light and 3 modes for blinking frequency. The format of that setting is 0xXY- that means the user needs to insert 0x(operation mode)(blinking frequency), e.g if the user wants to set the light as alarm light flash with horn and blinking frequency to 2 Hz, then it is needed to insert 0x21.