RESI-1LED-MODBUS, RESI-1LED-ASCII

Our ultra slim modules with three dimmable channels for RGB, dual white or monocolor LED stripes

Modbus-IDA the architecture for distributed automation

ASCII

3x

Our series of ultra-slim IO modules (only 17.5mm width!) is designed for remote applications, to collect or control only a few IO signals. All our modules communicate with a RS232 or RS485 interface via MODBUS/RTU slave protocol. Our RESI-xx-ASCII series offers additionally a text oriented ASCII protocol. The RESI-1LED-xxx products can fade and control LED stripes. This can be RGB-LED stripes, dual white LED stripes or mono color LED stripes with common anode. The module offers three PWM dimmable channels with external power supply 0..48Vdc, max. 360W@24Vdc for the LED stripes and 400Hz PWM frequency. The product is suitable for applications in ships, hotel rooms, shops, bars, private living, meeting rooms, public areas, fountains, … Everywhere, where you want to add some LED light effects to your installation!

RESI-1LED-MODBUS
RESI-1LED-ASCII

RESI-1LED-MODBUS

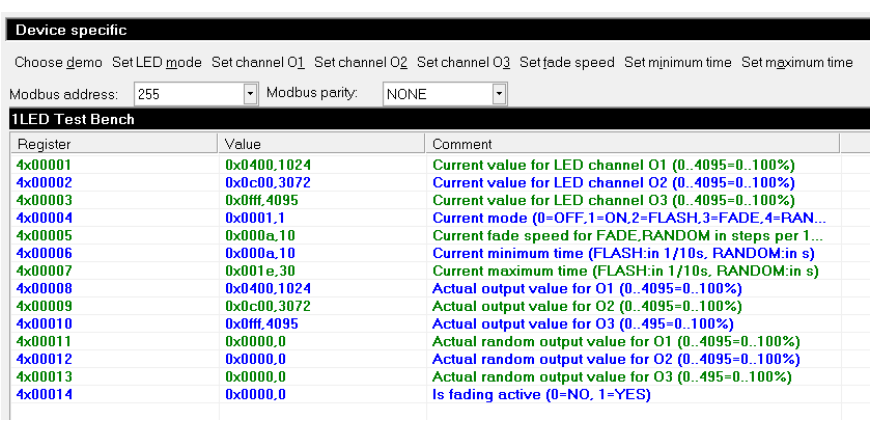
MODBUS/RTU module to control LED stripes with three individual dimmable channels via serial bus, suitable for RGB, dual white or mono color LED stripes with common anode, separated power supply for LED stripes 0..48Vdc, max. 360W@24Vdc, 180W@12Vdc, 720W@48Vdc, max. 15A input current, max. output current per channel 5A, 3 PowerMOS FET PWM outputs with 400Hz PWM frequency for dimming of the LED stripes, Host communication: via RS232 or RS485 with MODBUS/RTU slave protocol, Host baud rates: 9600, 19200, 38400 or 57600Bd, no, even or odd parity, 8 data bits, 1 stop bit, the three LED outputs are galvanically insulated from the serial interfaces, configuration and testing of module with free PC software MODBUS configurator, Weight: 60g, Dimension (LxWxH): 17,5x90x58mm, Power supply: 12-48V=, Power consumption: <0.6W, Mountable onto a EN50022 DIN rail.

RESI-1LED-ASCII

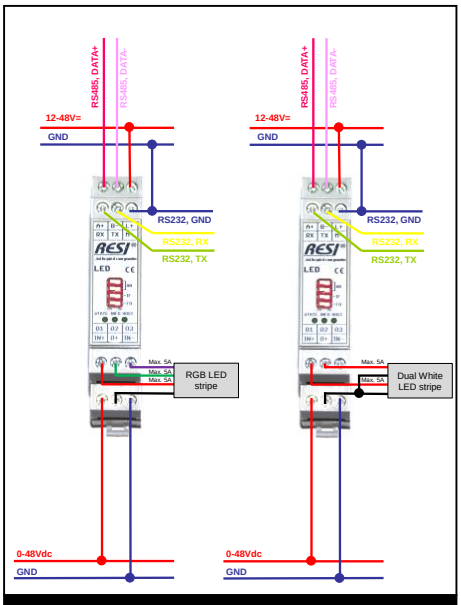
MODBUS/RTU or ASCII module to control LED stripes with three individual dimmable channels via serial bus, suitable for RGB, dual white or mono color LED stripes with common anode, separated power supply for LED stripes 0..48Vdc, max. 360W@24Vdc, 180W@12Vdc, 720W@48Vdc, max. 15A input current, max. output current per channel 5A, 3 PowerMOS FET PWM outputs with 400Hz PWM frequency for dimming of the LED stripes, Host communication: via RS232 or RS485 with simple ASCII strings or with MODBUS/RTU slave protocol, Host baud rates: 9600, 19200, 38400 or 57600Bd, no, even or odd parity, 8 data bits, 1 stop bit, the three LED outputs are galvanically insulated from the serial interfaces, configuration and testing of module with free PC software MODBUS configurator, Weight: 60g, Dimension (LxWxH): 17,5x90x58mm, Power supply: 12-48V=, Power consumption: <0.6W, Mountable onto a EN50022 DIN rail.

RESI-MODBUS-CONFIGURATOR

Consisting of a free of charge software to configure our IO modules. Download from our homepage www.RESI.cc.



Register	Value	Comment
4x00001	0x0400,1024	Current value for LED channel O1 (0..4095=0..100%)
4x00002	0x0c00,3072	Current value for LED channel O2 (0..4095=0..100%)
4x00003	0x0fff,4095	Current value for LED channel O3 (0..4095=0..100%)
4x00004	0x0001,1	Current mode (0=OFF,1=ON,2=FLASH,3=FADE,4=RAN...
4x00005	0x000a,10	Current fade speed for FADE,RANDOM in steps per 1...
4x00006	0x000a,10	Current minimum time (FLASH:in 1/10s, RANDOM:in s)
4x00007	0x001e,30	Current maximum time (FLASH:in 1/10s, RANDOM:in s)
4x00008	0x0400,1024	Actual output value for O1 (0..4095=0..100%)
4x00009	0x0c00,3072	Actual output value for O2 (0..4095=0..100%)
4x00010	0x0fff,4095	Actual output value for O3 (0..495=0..100%)
4x00011	0x0000,0	Actual random output value for O1 (0..4095=0..100%)
4x00012	0x0000,0	Actual random output value for O2 (0..4095=0..100%)
4x00013	0x0000,0	Actual random output value for O3 (0..495=0..100%)
4x00014	0x0000,0	Is fading active (0=NO, 1=YES)



Connection diagram

DIP Switch

BR=Baud rate

DIP1	DIP2	Baud rate
OFF	OFF	9600Bd
ON	OFF	19200Bd
OFF	ON	38400Bd
ON	ON	57600Bd

HINT: The correct parity (NONE; EVEN;ODD) is selected with the software tool, not with DIP switches.

IF=Interface

OFF	RS232
ON	RS485

FD=Function definition

OFF	The unit ID from the FLASH memory is used
ON	The unit ID 255 is used

DIP switches

AT A GLANCE

- Ultra-slim module size: Only 17.5mm width
- Host communication: via RS232 or RS485 with MODBUS/RTU or ASCII serial protocol
- Host baud rates: 9600, 19200, 38400 or 57600Bd, no, even or odd parity, 8 data bits, 1 stop bit
- Ideal for LED stripes; RGB, dual white or mono color with common anode
- 3 channel dimmable PWM output for LED stripes 0..48Vdc, max 5A per channel, 400Hz PWM
- Separated power supply for LED stripe: max. 360W@24Vdc,180W@12Vdc,720W@48Vdc
- Power supply: 12-48V=
- Power consumption: <0.6W
- Size (LxWxH): 17.5x90x58mm
- Mountable onto a EN50022 DIN rail