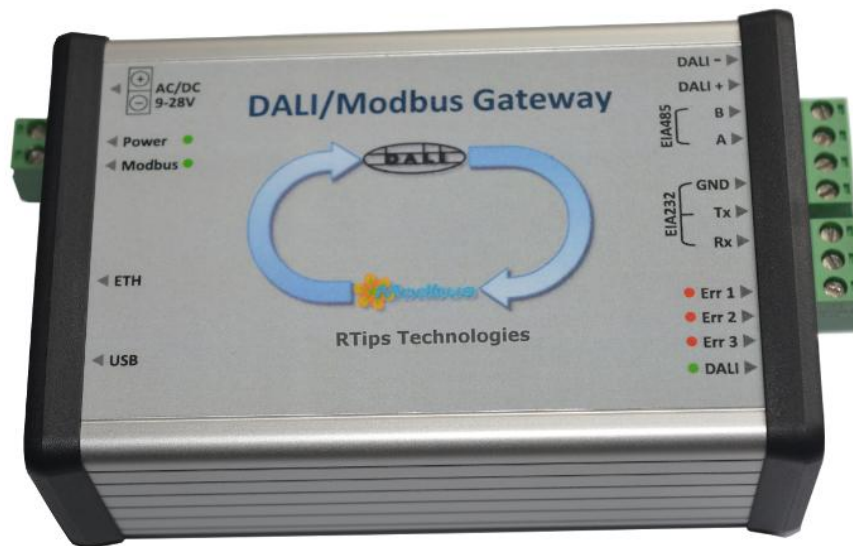


DALI/Modbus Gateway

RTips
Technologies

Modbus Software. Less is more

Product Brief



The DALI/Modbus gateway is a protocol converter that works as a Modbus TCP/RTU server/slave and controls a DALI (Digital Addressable Light Interface) bus with up to 64 DALI devices.

Key Features

- The DALI bus supports up to 64 light controller addresses, 16 scenes and 16 groups
- Allows control and monitoring of the devices in a DALI bus from a Modbus-based control system (e.g. SCADA)
- Allows setting, reading and changing of Configuration Values of DALI devices from a Modbus Master:
 - Short Address (Individual address)
 - Group Address (Add/Remove LED's)
 - Minimum Level (0 to 254)
 - Maximum Level (0 to 254)
 - Power-on Level
 - Fade Rate
 - Fade Time
- DALI interface according to DIN EN 62386-103/2011
- A GUI Configuration Software tool provided to perform all setup tasks related to the configuration of DALI devices, setting of Modbus communication parameters (IP address, serial port settings, etc.)
- Wide input power supply range of 9 – 28 VAC/VDC
- Modbus support on Ethernet (Modbus TCP) and ESD protected RS-232 or RS-485 port
- EFT protection and surge protection for power line
- DIN RAIL mountable with screw terminal connections for easy installation
- Onboard LED's for error and communication status indication

Applications

- Integration of DALI light controllers to a Modbus TCP/RTU compatible SCADA or PLC
- Factory and Office Lighting control from a Modbus network

Quick Specs

Interface		
DALI	Connector	2-pin screw terminal connector
	Baud rate (bps)	1200 bps
	ESD	2000V human body model
UART	COM port	RS-485/RS-232 (software configurable)
	Connector	2-pin screw terminal (A, B) for RS-485 / 3-pin screw terminal (TxD, RxD, GND) for RS-232
	Baud rate (bps)	1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200
Ethernet	Connector	1 x 10/100 Ethernet RJ45
LED Indicators		
System LED Indicators		PWR/MODBUS & DALI COMM STATUS/ERROR
EFT/ESD Protection		
IEC-61000-4-2 ESD 30kV (Air), 30kV (Contact) for each terminal		
EFT protection in accordance with IEC 61000-4-4		
Power		
Power supply		9 – 28 VDC/VAC
Connector		2-pin terminal block
Protection		Power reverse polarity protection, Overvoltage brown-out protection
Power Consumption		6W
Mechanical		
Casing		Extruded aluminium enclosure with DIN RAIL base
Dimensions (L x W x H)		120 mm x 78 mm x 43 mm
Environmental		
Operating Temperature		10°C ~50 °C
Storage Temperature		-10 °C ~ +60 °C
Ambient Relative Humidity		10% ~ 90% RH, condensing

Ordering Information

SI no	Part no	Model Name
1	MB-DL-001	Modbus TCP to DALI gateway
2	MB-DL-002	Modbus RTU to DALI gateway
3	MB-DL-003	Modbus TCP/RTU to DALI gateway

For ordering assistance and technical support.

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