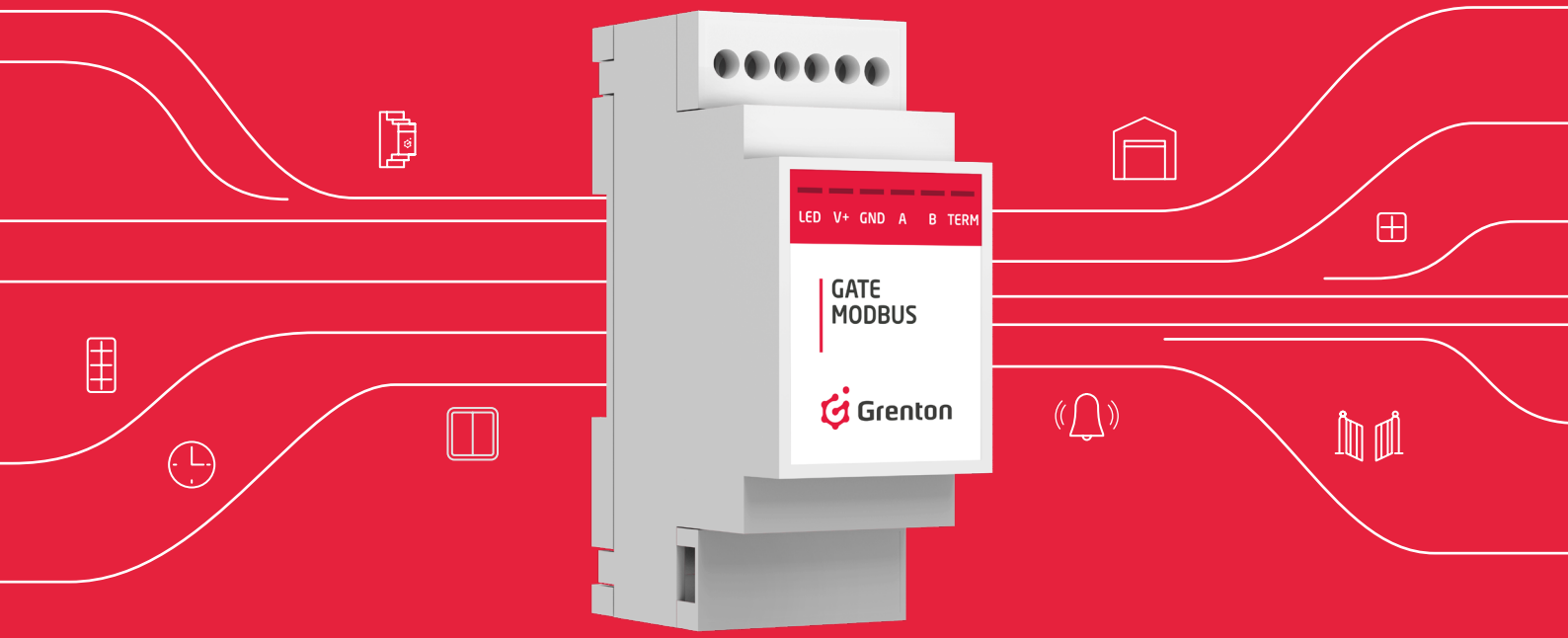
GRENTON GATE MODBUS

INT-011-E-01

UNIVERSAL GATE MODULE FOR DIN RAIL ASSEMBLY



Module for integration with external devices and systems. Gate MODBUS enables integrations with every device supporting MODBUS RTU

- possibility to control any Modbus-based devices by means of a mobile application
- great integration flexibility thanks to the support for simultaneous communication with various devices, which may also use different transmission parameters
- reliable ethernet communication with the Grenton CLU unit

CONFIGURATION PARAMETERS

CHARACTERISTICS

Name	Description
Uptime	Time of device operation since last reset (in seconds)
UnixTime	Current Unix time
FirmwareVersion	Gate software version
ClientReportInterval	Characteristics change report period
DeviceAddress	Modbus slave device address
AccessRights	Mode: Read or Read/Write
RegisterAddress	Supported register address
TransmisionSpeed	Transmission Speed
ValueType	Variable type
BitPosition	Bit position
BitCount	Number of register's bits
RefreshInterval	Refresh interval
ResponseTimeout	Response timeout
Divisor	Divisor
Endianess	Byte order
RegisterType	Modbus register type
ErrorCode	Error code
Value	Read or write value
RegisterValue	Register value

METHODS

Name	Description
SetDateTime	Sets date and time
SetClientReportInterval	Sets the characteristics change report period
SetDeviceAddress	Sets modbus slave device address
SetAccessRights	Sets the mode for read or read/write
SetRegisterAddress	Sets the supported register address
SetTransmisionSpeed	Sets the transmission speed
SetValueType	Sets the variable type
SetBitPosition	Sets bit position

Name	Description
SetBitCount	Sets the number of register's bits
SetRefreshInterval	Sets the refresh interval
SetResponseTimeout	Sets the response timeout
SetDivisor	Sets the divisor
SetEndianess	Sets byte order
SetRegisterType	Sets the modbus register type
SetValue	Sets read or write value

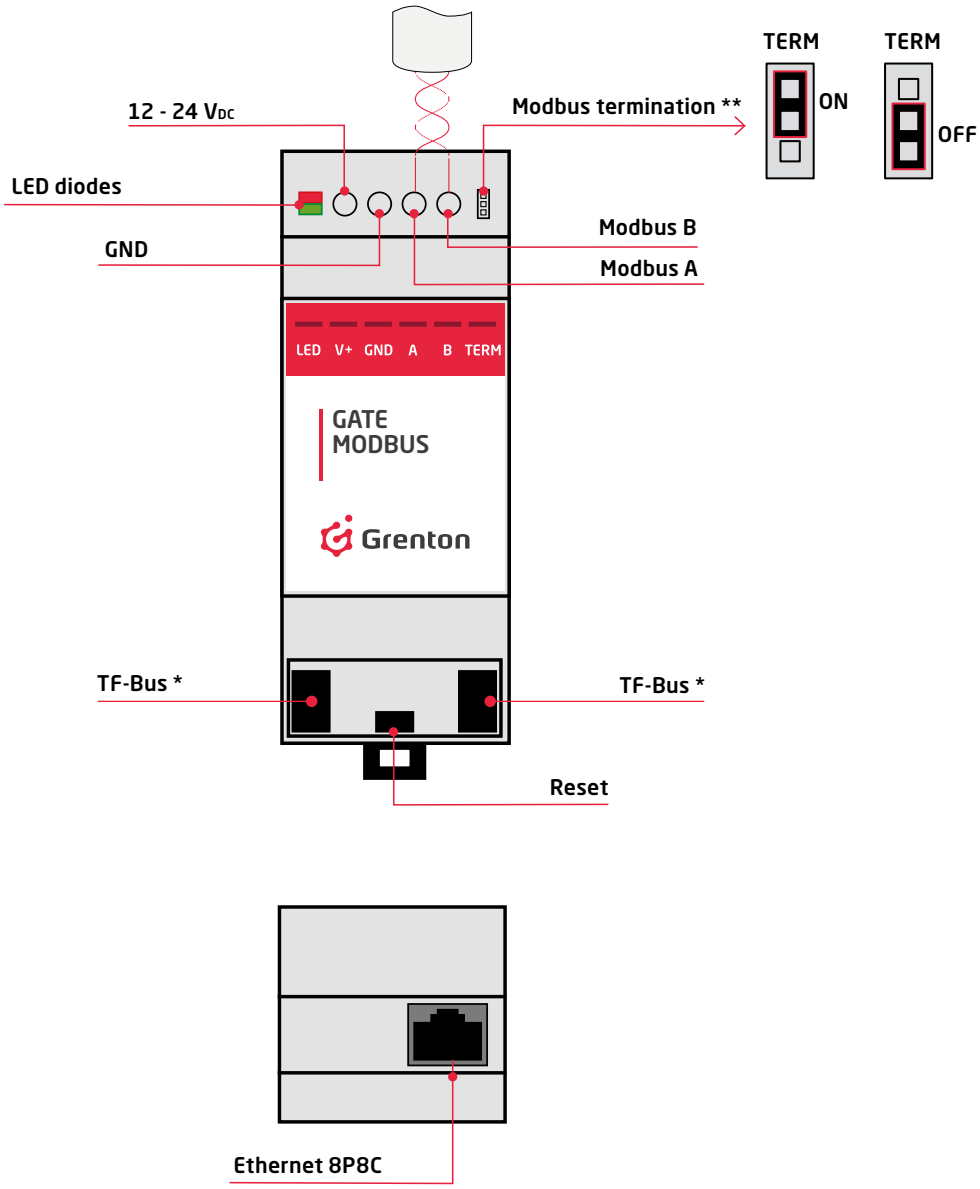
EVENTS

Name	Description
OnInit	Event occurring once during device initialization
OnChange	Event occuring when a change in the state takes place (regardless of the value)
OnError	Event occuring when the slave device reports an error

TECHNICAL SPECIFICATION

power options	supply DC	12 - 24 V
	TF-Bus	5 V
max. current input for 12 V		80 mA
max. current input for 24 V		50 mA
weight		80 g
dimensions (H/W/D)		52/57/21 mm
operating temperature range		0 to +45°C
Modbus physical layer		RS-485

WIRING DIAGRAM



*) The device can be alternatively powered by means of the TF-Bus connector that provides 5 VDC power supply. However, it is recommended to use external 12 - 24 VDC supplies as it improves the stability of the system. The device works as a TF-Bus relay so it can be easily installed in the middle of other Grenton modules.

**) If the GATE MODBUS is located at a physical end of the bus (Modbus), a terminator jumper should be placed in the ON position. For correct operation of the Modbus, termination is required at both ends.

LED - status indication:

- ○ ○ No supply
- ◑ ○ Green diode blinks - system OK
- ◑ ● Slave device reports an error
- ◑ ◑ Error or no configuration