

T511, Modbus RTU Master to Profibus DP Slave gateway for demanding process control applications



Summary:

- ◆ DIN rail mounted module
- ◆ -40 °C to 85°C operation range
- ◆ All Profibus data rates supported
- ◆ Slide/DIP switches for bus terminations and address setting
- ◆ Profibus DP-V0 and DP-V1 configuration services supported
- ◆ NAMUR NE 107 diagnostic support
- ◆ Connect up to 4 Modbus RTU Slave instruments (RS-485)
- ◆ Automatic Profibus baud rate detection
- ◆ Change address function is supported



General description

The T511 is a **DIN rail mounted module** for interfacing Modbus RTU instruments to a Profibus DP network. The device acts as a Modbus Master and a Profibus Slave.

T511 supports one measured variable including quality status of the measurement per channel. Each channel supports blocks of up to 16 registers for cyclic exchange of input and/or output data. Configurations can be selected to allow 2, 4, 8, 16 or 32 bytes to cyclically be read and/or written to the device per Modbus instrument. Max input dataframe is 236 bytes.

T511 supports diagnostic information according to NAMUR NE107. The user has full flexibility in mapping diagnosis to the four NAMUR flags.

T511 supports access to up to ten read/write setup registers per Modbus device through Profibus.

T511 supports Modbus communication statistics counters. Any Modbus communication problem will be reported in the Profibus Diagnostics message.

T511 supports easy configuration from a PC. No special tools are required

T511 Specifications:

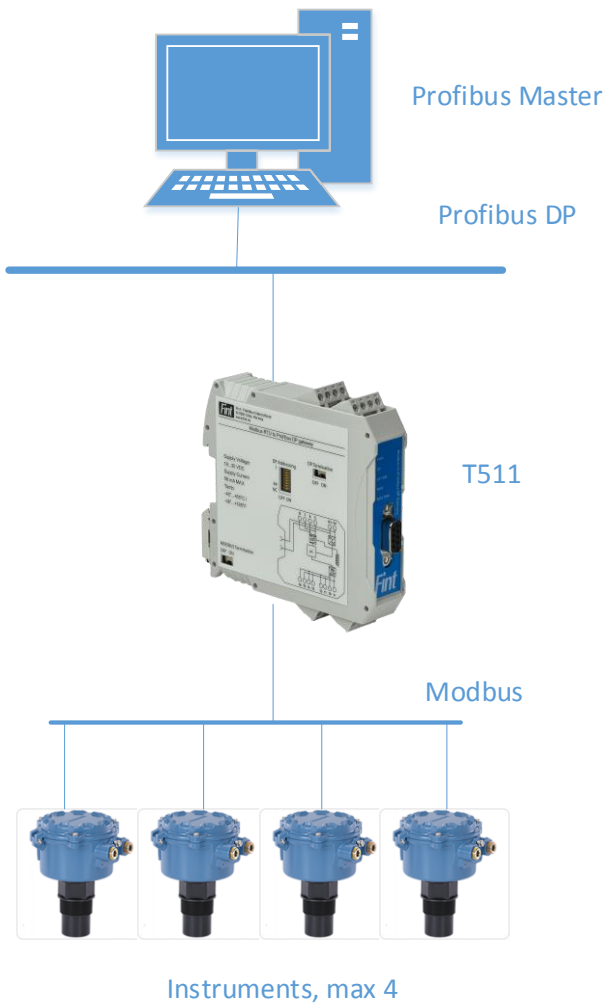
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|---------------------------------|---------------------------|
| ◆ Mechanical size | 114,5 * 99 mm |
| ◆ Mounting | DIN rail |
| ◆ Module width | 23,2 mm |
| ◆ Operating temperature range | -40 °C to + 85 °C |
| ◆ Profibus data rates supported | 9.6 kbit/s – 12 Mbits/s |
| ◆ Weight | 130 gram |
| ◆ Housing | Plastic, IP-20 protection |
| ◆ DIP Switch | Profibus address 0-125 |
| ◆ Slide Switch | Profibus Terminator |
| ◆ Slide Switch | Modbus Terminator |
| ◆ Supply voltage | 18...30 VDC |
| ◆ Supply current | 58 mA MAX |
| ◆ Shock | IEC 600068-2-27 |
| ◆ Vibration resistance | IEC 600068-2-6 |
| ◆ Number of Profibus ports | 1 |
| ◆ Number of Modbus ports | 4 |
| ◆ Profibus protocol | DP-V0 / DP-V1, Slave |
| ◆ Modbus protocol | Modbus RTU, Master |
| ◆ Modbus serial standard | RS-485 |
| ◆ Profibus connector | DB9 Female |

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Instrument and gateway set-up



Mechanical dimensions

