



TDI340

S0 pulse counter with MODBUS RTU interface



Overview

TDI340 is a S0 pulse counter with the MODBUS RTU interface. It has 4 isolated digital inputs, complying with the S0 standard 62053-31. The S0 pulse counter works in polling or edge modes. In edge mode, it can be set up to count on rising, falling and both edges.

The device is dedicated to the S0 pulse counter but it also provides simultaneous readings for the state of the digital inputs - OPEN/CLOSE. Independent delays for Low-To-High and High-To-Low transitions can be applied. The delays are from 0 to 656 seconds in 10mS step and work if the counter for the corresponding digital input is in polling mode.

Applications

- Remote monitoring of electricity meters;
- Industrial process control;
- Remote monitoring of water meters;
- Monitoring of devices with S0 outputs;
- Remote data acquisition;
- Remote monitoring of gas meters;
- Energy management;
- Process monitoring.

Basic features

- RS-485 interface carrying up to 63 nodes;
- Non-volatile memory for counters storage;
- Wide supply voltage range, starting from 5VDC;
- Galvanically isolated inputs;
- 32-bit counters;
- Built-in 120 ohms termination resistor;
- DIN rail mounting;
- Firmware update via the interface.

Supported devices

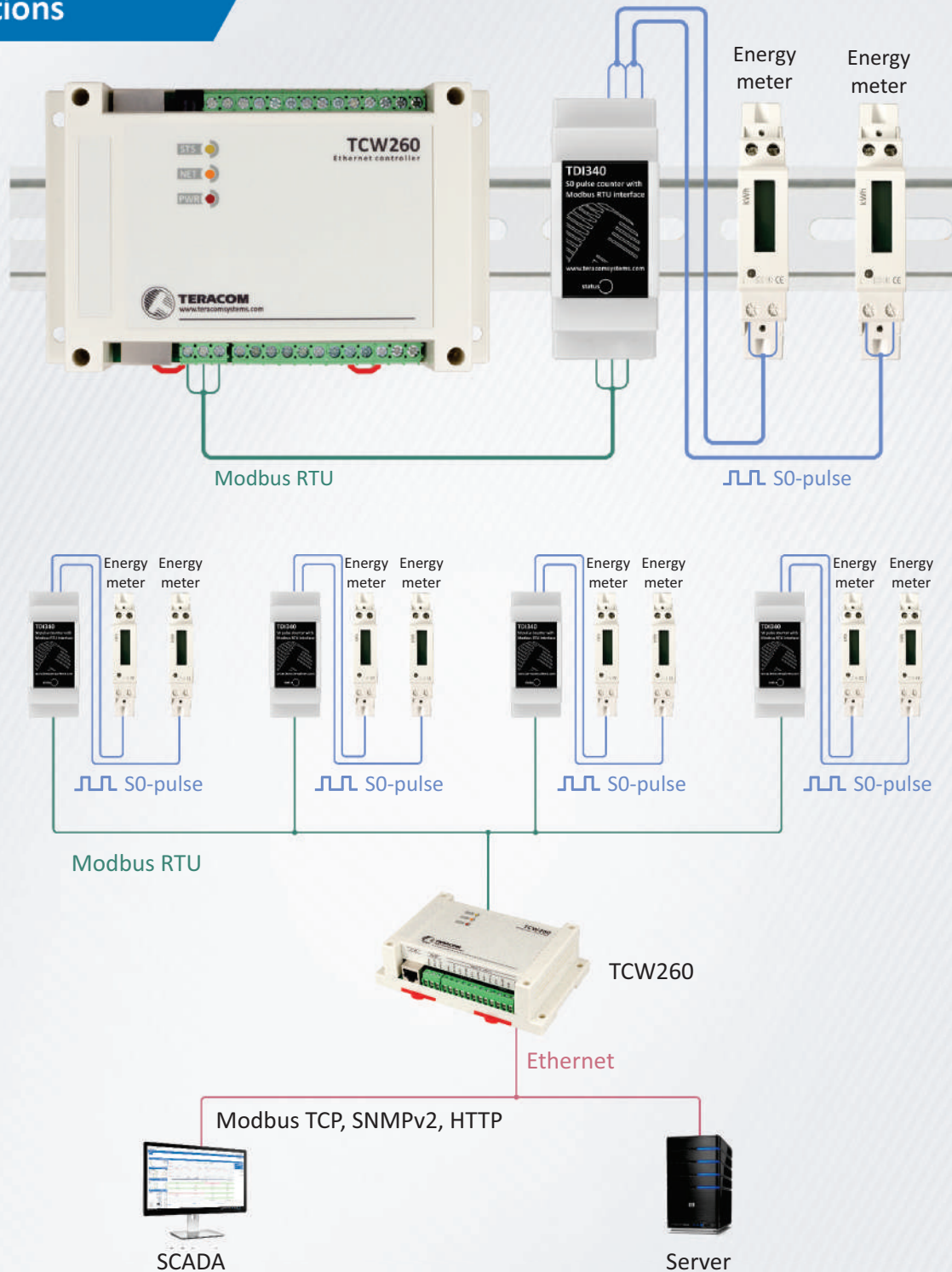
 Electricity Meters	 Heat Meters	 Gas Meters	 Water Meters	 Other S0 outputs devices	 Digital outputs devices
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Short specification

Supply voltage, VDC	5 - 36
Maximum current, mA	25 @ 5 VDC
Operating temperature range, °C	-20 to +60
Operating relative humidity range, %RH	10 to 90 (non-condensing)
Isolation functional, VDC	1000
Ingress protection	IP 40
Dimensions, mm	35x86x59, (2 module enclosure)



Applications



Can be used with

- Energy monitoring module TCW260;
- GSM-GPRS remote IO module TCG140;
- Other third-party MODBUS RTU masters.