

IP67 I/O Module for Serial Interfaces

The TBEN-S-2COM connects RS232, RS485 and Modbus RTU devices to Ethernet networks, directly in the field via Turck's multiprotocol standard

Mülheim, October 19, 2017 – Turck is adding a variant for serial interfaces to its range of TBEN-S ultracompact module series. The TBEN-S-2COM connects devices with an RS232 or RS485 interface directly in the field to controllers with the Profinet, Ethernet/IP or Modbus TCP protocols. This saves users from having to run long wiring routes to the control cabinet. The user can choose between RS232 and RS485, as required for the characteristics of the two serial ports. The module also offers four I/Os that can be used as inputs or outputs without any configuration. Use in very demanding environments is possible thanks to the high degree of protection to IP65, IP67 to IP69K, as well as the extended temperature range from -40 to +70 °C.

A client function for Modbus RTU comes already integrated in the I/O module. This eliminates the need on the TBEN-S-2COM to program separate accesses to Modbus in the controller environment. Up to 64 Modbus RTU devices can be connected to the network per module.

As the module is able to also transmit in Profinet or Ethernet/IP operation via Modbus TCP, it can transfer the report data of sensors and actuators simply parallel to the Edge gateways, data hubs or Cloud systems. Commonly used systems such as Microsoft Azure, IBM Bluemix, but also many OPC UA servers also support communication via Modbus TCP. This therefore enables the TBEN-S-2COM to be used in big data applications for predictive maintenance also for devices with a serial interface.

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