

Drivers for UMD measuring equipment

Connection of UMD measuring devices to S7 and S7-compatible control systems

To avoid unnecessary Profinet/ Profibus connections, the universal drivers type “Simatic Drive” allow direct connection of the UMD measuring devices to your automation via Ethernet with Modbus TCP. These interfaces are available on the PLCs as standard.

Since UMD measuring devices do not usually generate control-relevant real-time data, conventional communication is sufficient. This means that expensive additives can be dispensed with. The data is entered directly into data blocks.

The Modbus TCP interface of the UMD Ethernet measuring devices (UMD 96, UMD 97, UMD 807....) maps all process data as floating point numbers (32 or 64 bit) in input registers in pairs or in groups of 4. The configuration data is mapped into holding registers.

- Simatic Drive serves as a Modbus TCP client driver module and uses the system modules for sending and receiving via TCP/IP and remains unchanged.
- Connection ID number, account number (UID), Modbus command (function code 1, 2, 3, 4, 6, 15 or 16) and user data pointer are transferred as parameters.
- All local variables of the communication driver module “Simatic Drive” as well as send and receive data are located in the associated instance data module.

Your benefits:

No unnecessary capacities are used on your PLC, thus preventing inertia of your control system. Fast connection through the Ethernet interface, no unnecessary accessories such as Profibus plugs, Profibus cables. Direct access to the meter (integrated web server). High cost savings and flexible use.

Single licence: Licence can be used by an end customer for an unlimited period.

Designation	Control type S7 driver	Project planning	Order no.
Simatic Drive S7OB	S7-CPU3xx/4xx Profinet OnBoard	Simatic Step 7	52.22.0001
Simatic Drive S7CP	S7-CPU3xx/4xx Profinet via CP 343	Simatic Step 7	52.22.0002
Simatic Drive OB*	S7-CPU3xx/4xx Profinet OnBoard	Simatic TIA	52.22.0004
Simatic Drive 12*	S7-1200-TIA	Simatic TIA	52.22.0011
Simatic Drive 15*	S7-1500-TIA	Simatic TIA	52.22.0012

* Please state the TIA version number when ordering

Company licence: Unlimited use for various end customers.

Designation	Control type S7 driver	Project planning	Order no.
Simatic Drive XL S7OB	S7-CPU3xx/4xx Profinet OnBoard	Simatic Step 7	52.22.1001
Simatic Drive XL S7CP	S7-CPU3xx/4xx Profinet via CP 343	Simatic Step 7	52.22.1002
Simatic Drive XL OB*	S7-CPU3xx/4xx Profinet OnBoard	Simatic TIA	52.22.1004
Simatic Drive XL 12*	S7-1200-TIA	Simatic TIA	52.22.1011
Simatic Drive XL 15*	S7-1500-TIA	Simatic TIA	52.22.1012

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