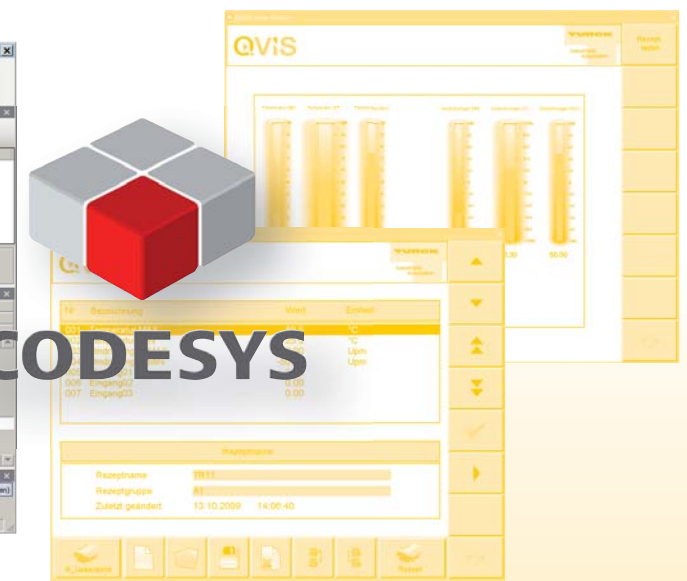
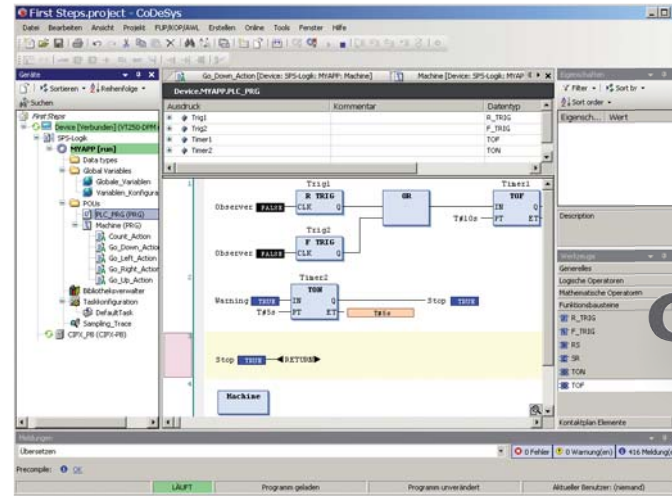


**OPERATOR INTERFACES AND PLC VT250**

**Programming and visualizing**

**Programming with CODESYS**



**CODESYS**

The controller integrated in the VT250 operates on the basis of the IEC 61131 approved CODESYS programming software, version 3. All standard programming lan-

guages such as LD, FBD, IL, ST and SFC are available. Not only real object-oriented PLC programming but also all supported fieldbuses are configurable via CODESYS.

**Visualizing with QVIS**



**QVIS**

QVIS is the software environment used for visualization in the VT250 series. QVIS and CODESYS are closely linked to ensure an easy import of symbols for data exchange.

Pure visualization solutions are implemented with further drivers provided by QVIS for the most common control systems (MPI, RFC1006, DF1, ...).

[www.turck.com](http://www.turck.com)



To get all product information, just scan the QR code with a smart-phone or webcam.

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**Sense it! Connect it! Bus it! Solve it!**



# Visual PLC VT250

## HMI or PLC

VT250 HMIs (Human Machine Interfaces) combine operating and monitoring functions with integrated controlling. The strength of the VT250 series lies in the controll functionality of the L7 devices which can be used as Visual PLC. The L1 type provides pure HMI functionality.

The devices of the VT250 series are equipped with a 5.7" QVGA-TFT color touch screen at the front and are IP65 rated. The compact plastic housing measures only 212 x 156 x 50 mm and fits even in confined spaces.

## Master or Slave

The VT250 hardware supports all standard fieldbus and Ethernet protocols, such as PROFIBUS-DP, CANopen, DeviceNet™ and Modbus RTU, also the Ethernet protocols Modbus TCP, PROFINET IO, and EtherNet/IP™.

What makes it special? The control can be applied as both, master and slave. This allows it to be used as a gateway between fieldbus and Ethernet protocols. As a PROFIBUS-DP master, the VT250 controls peripheral I/Os and as a Modbus TCP slave for example, it exchanges data with higher level control systems via Ethernet, doing both simultaneously. For the currently possible combinations please see the table on the right.



## Smart details

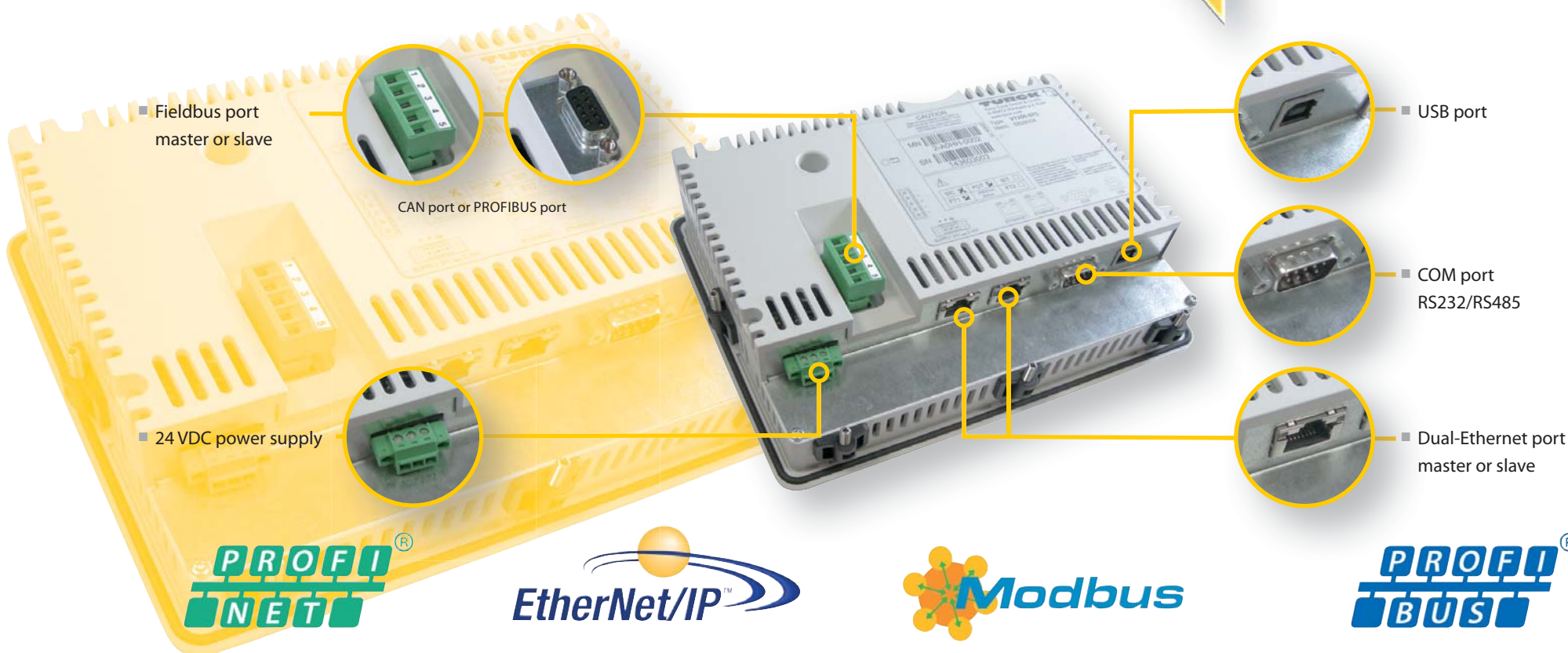
The slot for the SD memory card is located on the back of the device and is accessible from the outside. An open style CAN port for DeviceNet™ or CANopen as well as a 9-pin SUB-D connector for PROFIBUS-DP or MPI are additionally available as fieldbus port.

The plugs on the backside are recessed which protects them against mechanical impacts and ensures that the cable conduit of an angled SUB-D connector for PROFIBUS/MPI extends downwards like all other cables.

## Connection options

No less than two RJ45 realtime Ethernet ports are located on the bottom of the VT250 and serve as fieldbus interfaces or for communication with the higher-level systems. Furthermore, Ethernet installations in line topology can be realized with the integrated switch.

A serial COM port for RS232 and RS485 communication rounds off the choice of connection possibilities. Peripheral devices such as barcode scanners, light screens and similar devices are thus easily and directly connected.



		Fieldbus-interface			Ethernet-interface			RS485/RS232	
		PROFIBUS-DP	CANopen	DeviceNet™	PROFINET IO	EtherNet/IP™	Modbus TCP	Modbus RTU	
		Master	Slave	Master	Slave	Master	Slave	Master	Slave
6828009	VT250-57P-L7-DPM	●	-	-	-	-	-	●	●
6828005	VT250-57C-L7-COM	-	-	●	-	-	-	●	●
6828006	VT250-57C-L7-DNM	-	-	-	●	-	-	●	●
6828016	VT250-57P-L7-PNM	-	-	-	●	-	-	●	●
6828017	VT250-57C-L7-IPM	-	-	-	-	●	-	●	●
6828008	VT250-57P-L1-QVIS	HMI driver (MPI, RFC 1006, ...)							

