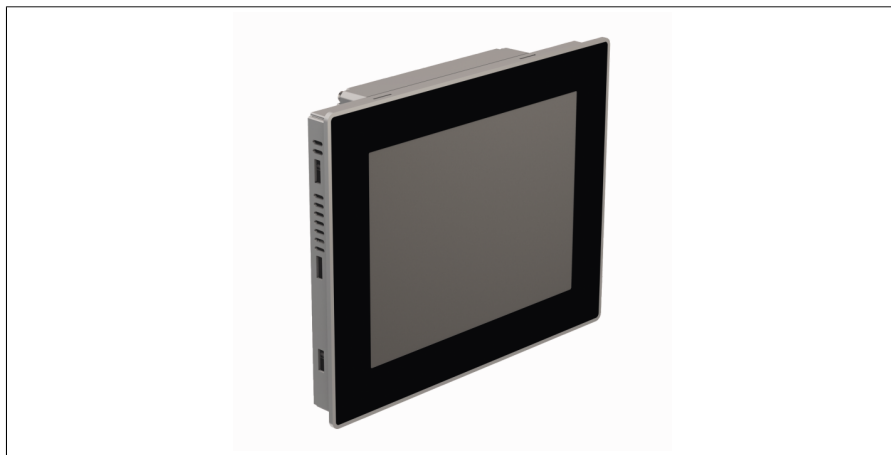


TX500 HMI / PLC Series

10.4" Display - CODESYS V3 PLC with TARGET and WEB VISU High-Quality Metal Housing and Front Foil with a Resistive Touch TX510-P3CV01



- 10.4" TFT color display
- LED backlight
- 800 x 600 pixel resolution
- 64 K colors
- Resistive touch screen
- 2 RJ45 Ethernet ports with integrated switch
- 1 serial interface (RS232, RS485, RS422)
- 2 USB host ports
- 1 SD card slot

Type designation	TX510-P3CV01
Ident-No.	6828105
Display / Touch	
Display	TFT colour
Touch	Resistive
Active screen area	10.4"
Resolution (pixels)	800 × 600 SVGA
Format	4:3
Brightness	300 Cd/m² typ.
dimmmable	yes
Controller	
Processor	ARM Cortex A8, 1 GHz
Memory	256 MB
Add-on memory	1x SD card slot, 2 USB host ports
Real time clock	yes (battery-backed)
PLC data	
Programming	CODESYS V3
Released for CODESYS version	V 3.5.8.10
Programming languages	IEC 61131-3 (IL, LD, FBD, SFC, ST)
Programming interface	Ethernet
Program memory	20000 kByte
Non-volatile memory	16 kByte
Interfaces	
Onboard	2 x RJ45 Ethernet, 1 x RS232/485/422, 2 x USB host, 1 x power supply, 2 x expansion slot
Onboard for selection	CANopen Master (via extenesion module)
Ethernet	2 x 10/100 Mbit
Protocols	PROFINET (Controller/Master) EtherNet/IP™ (Scanner/Master) Modbus TCP (Master/Slave)
Fieldbus	Modbus RTU (Master/Slave) CANopen (Master)
USB	2x Host Ports
Serial	RS232 / RS485 / RS422
Expansion slot	2 x plug-in
Power supply	
Rated value	24 VDC, max. 1.0 A
Admissible voltage range	10...32VDC

TX500 HMI / PLC Series**10.4" Display - CODESYS V3 PLC with TARGET and WEB VISU****High-Quality Metal Housing and Front Foil with a Resistive Touch****TX510-P3CV01**

General data

Operating ambient conditions	0...50 °C, 5...85 % rel. humidity, non-condensing
Storage ambient conditions	-20...70 °C, 5...85 % rel. humidity, non-condensing
Approvals	CE RoHS cULus
Ex approval	Haz. Loc. Class I, Division 2, Groups A,B,C and D
Protection class	IP66 front, IP20 rear

Dimensions

Front (W x H x D)	287x232x60mm
Cut-out (W x H)	276x221mm
Mounting depth	56 + 4 mm
Weight	approx. 2.1 kg

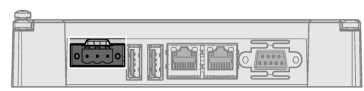
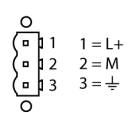
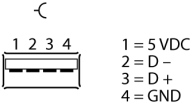
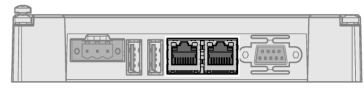
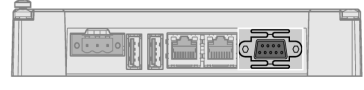
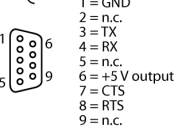
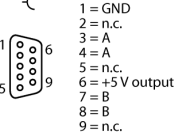
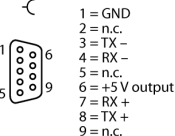
TX500 HMI / PLC Series

10.4" Display - CODESYS V3 PLC with TARGET and WEB VISU

High-Quality Metal Housing and Front Foil with a Resistive Touch

TX510-P3CV01

Connection and pin assignment

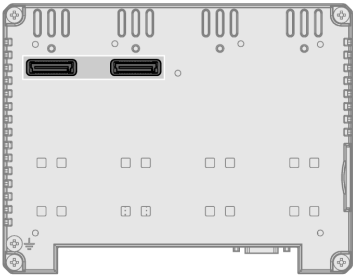
	Power Supply The power supply connector is delivered with each device. It can be reordered at Turck as accessories. Type designation: TX-Mount-xx	Pin Assignment 
	USB Interfaces	Pin Assignment 
	Ethernet Ports The Ethernet ports are connected to each other via an internal switch. Ethernet cables (examples): RJ45 male connector – RJ45 male connector: RJ45S-RJ45S-4414-2M (ID number: 6441423) RJ45 male – M12 male, 4-pin, D-coded: RSSD-RJ45S-4414-2M (ID number: 6441413) RJ45 male – M8 male, 4-pin: PSGS4M-RJ45S-4414-2M (ID number: 6933005) RJ45 male – M12 female receptacle, 4-pin, D-coded: RJ45-FKSDD-4414-2M (ID number: 6935282)	Pin Assignment 
	Serial Interface The serial interface can be operated either as RS232, RS485 or RS422. The adjacent wiring diagrams show the respective pin assignments. Attention: In the RS485 mode, pins 3 and 4 as well as 7 and 8 must be externally connected!	Pin Assignment in RS232 Operating Mode  Pin Assignment in RS485 Operating Mode  Pin Assignment in RS422 Operating Mode 

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10.4" Display - CODESYS V3 PLC with TARGET and WEB VISU

High-Quality Metal Housing and Front Foil with a Resistive Touch

TX510-P3CV01

	Ports for Plug-in Modules	
	SD Card Slot SD card (example): SD CARD 2 GB (ID number: 6828025)	

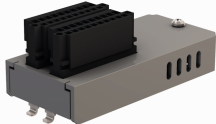
TX500 HMI / PLC Series

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High-Quality Metal Housing and Front Foil with a Resistive Touch

TX510-P3CV01

Accessories

Type code	Ident-No.	Description	Dimension drawing
TX-IO-XX03	6828201	Plug-In I/O-Modul - 20 DI, 12 DO, 8 AI (U / I / RTD / TC), 4 AO (U / I)	
TX-IO-DX06	6828203	Plug-In I/O-Modul - 8 DI, 6 DO, 1 Relais Output (NO)	
TX-CAN	6828210	Plug-In Schnittstelle für CANopen, 9-poliger SUB-D Stecker	
TX-RS485	100002598	Plug-In Schnittstelle für R485 / RS422, 9-polige SUB-D Kupplung	
TX-RS232	100002599	Plug-In Schnittstelle für RS232, 9-polige SUB-D Kupplung	