

TX500 HMI / PLC Series

13.3" Display - CODESYS V3 PLC with TARGET and WEB VISU High-Quality Metal Housing and Front Foil with a Resistive Touch TX513-P3CV01



- 13.3" TFT wide screen color display
- LED backlight
- 1280 x 800 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		TX513-P3CV01
Ident-No.		6828107
Display / Touch		
Display		TFT colour
Touch		Resistive
Active screen area		13.3"
Resolution (pixels)		1280 × 800 WXGA
Format		16:9
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. 1.2 A
Admissible voltage range		10...32VDC

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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)	336x267x60mm
Cut-out (W x H)	326x256mm
Mounting depth	56 + 4 mm
Weight	approx. 2.6 kg

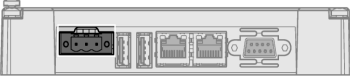
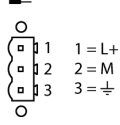
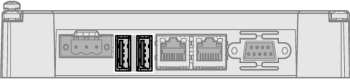
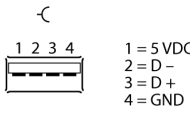
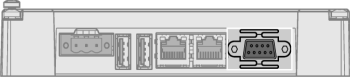
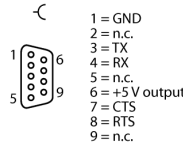
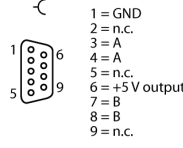
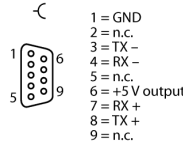
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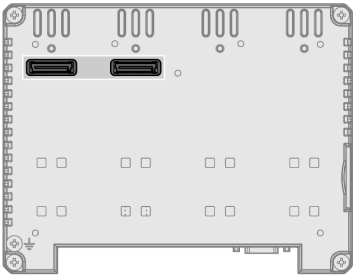
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Connection and pin assignment

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

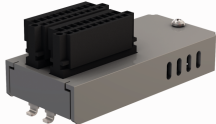
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Accessories

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	