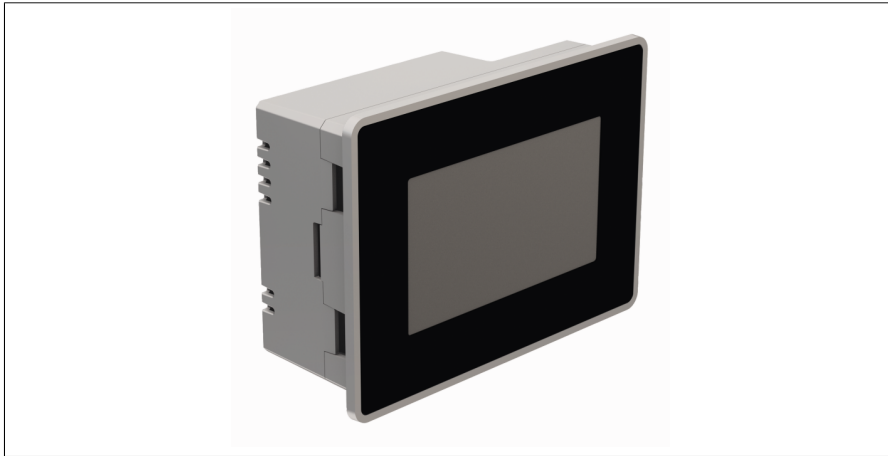


## TX500 HMI / PLC Series

### 4.3" Display - CODESYS V3 PLC with TARGET and WEB VISU High-Quality Metal Housing and Front Foil with a Resistive Touch TX504E-P3CV01



- 4.3" TFT wide screen color display
- LED backlight
- 480 x 272 pixel resolution
- 64 K colors
- Resistive touch screen
- 2 RJ45 Ethernet ports with integrated switch
- 1 serial interface (RS232, RS485, RS422)
- 1 USB host port
- 1 SD card slot

<b>Type designation</b>	TX504E-P3CV01
Ident-No.	6828101
<b>Display / Touch</b>	
Display	TFT colour
Touch	Resistive
Active screen area	4.3"
Resolution (pixels)	480 x 272 WQVGA
Format	16:9
Brightness	150 Cd/m <sup>2</sup> typ.
dimmmable	yes
<b>Controller</b>	
Processor	ARM Cortex A8, 600 MHz
Memory	128 MB
Add-on memory	1 x SD card slot, 1 x USB host port
Real time clock	yes (battery-backed)
<b>PLC data</b>	
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
Non-volatile memory	16 kByte
<b>Interfaces</b>	
Onboard	2 x RJ45 Ethernet, 1 x RS232/485/422, 1 x USB host, 1 x power supply, 2 x expansion slot
Onboard for selection	CANopen Master (via extension 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	1x Host Port
Serial	RS232 / RS485 / RS422
Expansion slot	1 x plug-in
<b>Power supply</b>	
Rated value	24 VDC, max. 0.55 A
Admissible voltage range	10...32VDC

**TX500 HMI / PLC Series****4.3" Display - CODESYS V3 PLC with TARGET and WEB VISU  
High-Quality Metal Housing and Front Foil with a Resistive Touch  
TX504E-P3CV01**

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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

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**Dimensions**

Front (W x H x D)	147x107x60mm
Cut-out (W x H)	136x96mm
Mounting depth	56 + 4 mm
Weight	approx. 1 kg

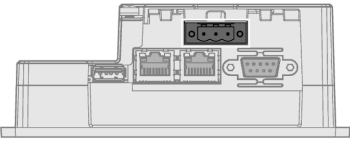
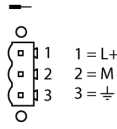
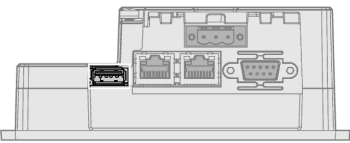
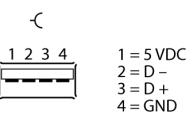
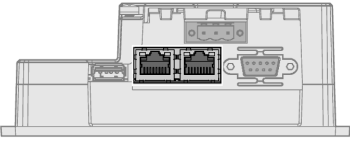
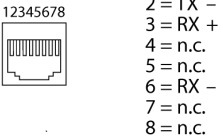
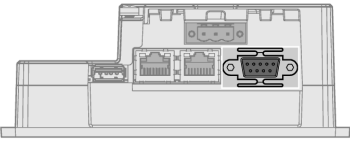
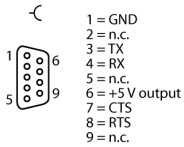
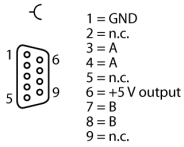
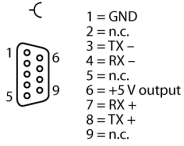
**TX500 HMI / PLC Series**

**4.3" Display - CODESYS V3 PLC with TARGET and WEB VISU**

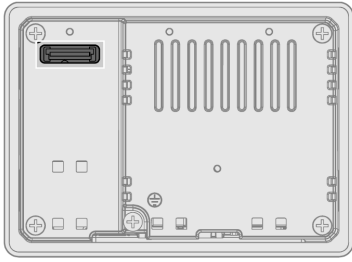
**High-Quality Metal Housing and Front Foil with a Resistive Touch**

**TX504E-P3CV01**

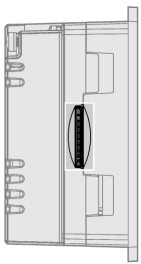
**Connection and pin assignment**

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

**TX500 HMI / PLC Series**  
**4.3" Display - CODESYS V3 PLC with TARGET and WEB VISU**  
**High-Quality Metal Housing and Front Foil with a Resistive Touch**  
**TX504E-P3CV01**



**Port for Plug-in Module**



**SD Card Slot**

SD card (example): SD CARD 2 GB (ID number: 6828025)