

TX700 HMI/PLC Series
5" Display - CODESYS V3 PLC with TARGET and WEB VISU
High-Quality Metal Housing and Glass Front with a Capacitive Touch
TX705-P3CV01



- 5" TFT wide screen color display
- LED backlight
- 800 x 480 pixel resolution
- 64 K colors
- Capacitive touchscreen with glass front
- 2 separated RJ45 Ethernet ports with 10/100 Mbit
- 1 serial interface (RS232, RS485, RS422)
- 1 USB host port
- 1 SD card slot

Type designation	TX705-P3CV01
Ident no.	100002029
Display / Touch	
Display	TFT colour
Touch	Capacitive
Active screen area	5"
Resolution (pixels)	800 x 480 WVGA
Format	16:9
Brightness	300 Cd/m ² typ.
dimnable	yes, bis 0 %
Controller	
Processor	ARM Cortex A8, 1 GHz
Memory	4096 MB
RAM memory	512 MB
Add-on memory	1 x SD card slot, 1 x USB host port
Real time clock	yes (battery-backed)
PLC data	
Programming	CODESYS V3
Released for CODESYS version	V 3.5.12.10
Programming languages	IEC 61131-3 (IL, LD, FBD, SFC, ST)
Programming interface	Ethernet
Program memory	20000 kByte
Non-volatile memory	63 kByte
Interfaces	
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
Power supply	
Rated value	24 VDC, max. 0.6 A
Admissible voltage range	10...32VDC

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General data

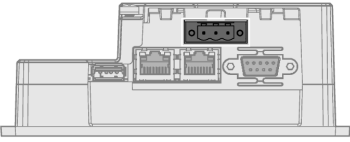
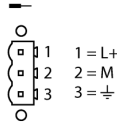
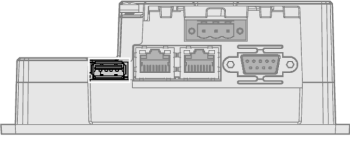
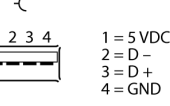
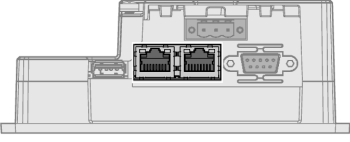

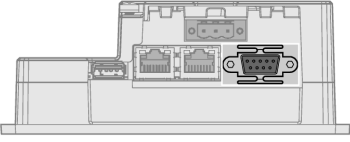
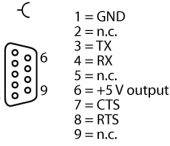
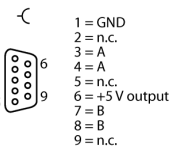
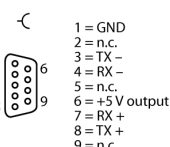
Operating ambient conditions	-20...60 °C, 5...85 % relative humidity, non-condensing
Storage ambient conditions	-20...70 °C, 5...85 % rel. humidity, non-condensing
Approvals	CE RoHS cULus
Protection class	IP66 front, IP20 rear

Dimensions

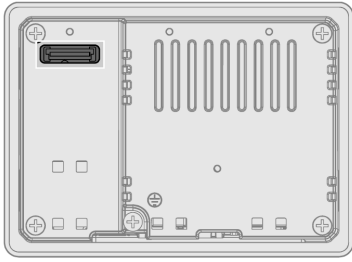
Front (W x H x D)	147x107x52mm
Cut-out (W x H)	136x96mm
Mounting depth	52+8 mm
Weight	approx. 1.2 kg

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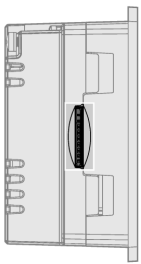
Connection and pin assignment

	<p>Power Supply</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>USB Interface</p>	<p>Pin Assignment</p> 
	<p>Ethernet Ports</p> <p>The Ethernet ports are independent.</p> <p>Ethernet cables (examples):</p> <p>RJ45 male connector – RJ45 male connector: RJ45S-RJ45S-4414-2M (Order number: 6441423)</p> <p>RJ45 male connector – M12 male connector, 4-pin, D-coded: RSSD-RJ45S-4414-2M (Order number: 6441413)</p> <p>RJ45 male connector – M8 male connector, 4-pin: PSGS4M-RJ45S-4414-2M (Order number: 6933005)</p> <p>RJ45 male connector – M12 female receptacle, 4-pin, D-coded: RJ45-FKSDD-4414-2M (order number: 6935282)</p>	<p>Pin Assignment</p> 
	<p>Serial Interface</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>Attention: 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> 

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Port for Plug-in Module







SD Card Slot

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

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Accessories

Type code	Ident no.	Description	Dimension drawing
TX-IO-XX03	6828201		
TX-IO-DX06	6828203		
TX-CAN	6828210		
TX-RS485	100002598		
TX-RS232	100002599		