

TX200 HMI/PLC Series

7" Display - CODESYS V3 PLC with TARGET and WEB VISU High-Quality Plastic Housing with a Resistive Touch Screen TX207-P3CV01

Type	TX207-P3CV01
ID	100002080

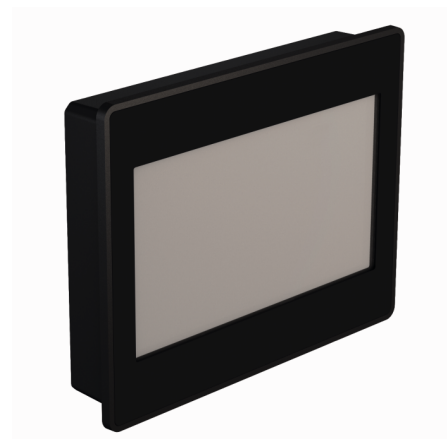
Display/touch	
Display	TFT colour
Touchscreen	Resistive, Plastic film front
Active screen area	7"
Resolution (pixels)	800 × 480 pixels WVGA
Format	16:9
Brightness	200 cd/m² typ.
dimnable	Yes

Controller	
Processor	ARM Cortex A9, Dual core 800 MHz
Memory	4 GB Flash
RAM memory	1024 MB
Add-on memory	2 × USB host ports
Real time clock	Yes (battery-buffered)

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 × RJ45 Ethernet, 4 × RS232/485/422, 2 × CAN 2 × USB host, 1 × power supply
Ethernet	ETH0 - 10/100/1000 Mbit ETH1 - 10/100 Mbit
Protocols	PROFINET (Controller/Master) EtherNet/IP (Scanner/Adapter) Modbus TCP (Server/Client) EtherCAT (MainDevice)
Fieldbus	Modbus RTU (Server/Client) CANopen (Server)
USB	2 × host ports
Serial	2x RS232, 2x RS422 / RS485, 2x CAN

Power supply	
Rated value	24 VDC, max. 0.3 A
Admissible voltage range	10...32 VDC



- 7" TFT wide screen color display
- LED backlight
- 800 x 480 pixel resolution
- 64 K colors
- Resistive touch screen
- 2 separate RJ45 Ethernet ports
- 4 serial interfaces (2 × RS232, 2 × RS422/RS485)
- 2 CAN interfaces
- 2 USB host ports

General data

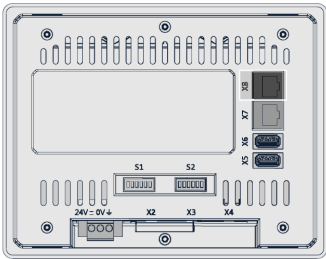
Operating ambient conditions	0...50 °C, 5...85 % rel. humidity, non-condensing
Storage ambient conditions	-20...70 °C, 5...85 % rel. humidity, non-condensing
Approvals	CE cULus
Protection class	IP66 front, IP20 rear NEMA type: 2/4X

Dimensions

Front (W x H x D)	187 x 147 x 34 mm
Cut-out (W x H)	176 x 136 mm
Mounting depth	29+5 mm
Weight	approx. 0.6 kg

Connection and pin assignment

	Power Supply The power supply connector is delivered with each device. 7/8" male receptacle for enclosure (example): RSF 40-1M W/LN Ident. no. U-36648	Pin Assignment  1 = 24 VDC 2 = 0 V 3 = $\perp$
	Serial Interface X2 — RS422/RS485 (COM2) + CAN (CAN0)	Pin Assignment  1 = CAN - GND 2 = CAN - terminating resistor 3 = CAN - CAN-H 4 = CAN - CAN-L 5 = CAN - terminating resistor 6 = RS485 - terminating resistor 7 = RS485 - GND 8 = RS485 - terminating resistor 9 = RS485 - Y (TX+) 10 = RS485 - Z (TX-) 11 = RS485 - A (RX+) 12 = RS485 - B (RX-)
	Serial Interface X3 — RS422/RS485 (COM3) + CAN (CAN1)	Pin Assignment  1 = CAN - GND 2 = CAN - terminating resistor 3 = CAN - CAN-H 4 = CAN - CAN-L 5 = CAN - terminating resistor 6 = RS485 - terminating resistor 7 = RS485 - GND 8 = RS485 - terminating resistor 9 = RS485 - Y (TX+) 10 = RS485 - Z (TX-) 11 = RS485 - A (RX+) 12 = RS485 - B (RX-)
	Serial Interface X4 — RS232 (COM1) + RS232 (COM4)	Pin Assignment  1 = GND (COM1) 2 = TX (COM1) 3 = RX (COM1) 4 = RTS (COM1) 5 = CTS (COM1) 6 = GND (COM4) 7 = TX (COM4) 8 = RX (COM4) 9 = RTS (COM4) 10 = CTS (COM4)



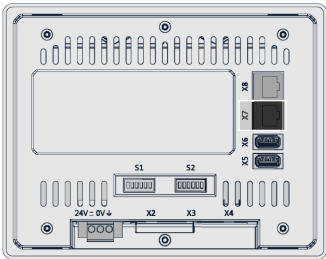
Ethernet
X8 – Ethernet Port 1 (10/100 Mbit)
Ethernet cordsets (examples):
RJ45-RJ45:
RJ45S RJ45S 441-2M
Ident. no. U-06842
RJ45-M12 D-code:
RSSD RJ45S 441-2M
Ident. no. U3-00525
RJ45-M8:
PSGS 4M RJ45S 4413-2M
Ident. no. U2-24205
RJ45-M12 D-code female receptacle:
RJ45S FKSDDED 441-1M
Ident. no. U-03569

Pin Assignment



12345678

1 = TX +
2 = TX -
3 = RX +
4 = n.c.
5 = n.c.
6 = RX -
7 = n.c.
8 = n.c.



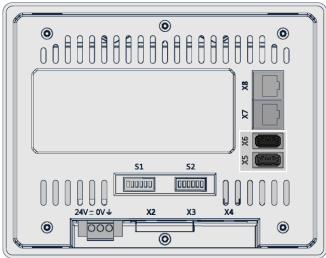
Ethernet
X7 – Ethernet Port 0 (10/100/1000 Mbit)
Ethernet cordsets (examples):
RJ45-RJ45:
RJ45S RJ45S 441-2M
Ident. no. U-06842
RJ45-M12 D-code:
RSSD RJ45S 441-2M
Ident. no. U3-00525
RJ45-M8:
PSGS 4M RJ45S 4413-2M
Ident. no. U2-24205
RJ45-M12 D-code female receptacle:
RJ45S FKSDDED 441-1M
Ident. no. U-03569

Pin Assignment



12345678

1 = TX +
2 = TX -
3 = RX +
4 = n.c.
5 = n.c.
6 = RX -
7 = n.c.
8 = n.c.



USB Interfaces

Pin Assignment



1 2 3 4

1 = 5 VDC
2 = D -
3 = D +
4 = GND

Accessories

Type code	Ident-No.		Dimension drawing
TX200-MOUNT-07	100003206	TX200 mounting bracket and power connectors for 7" devices	

Function accessories

Type code	Ident-No.		Dimension drawing
TX-PSC	100002938	Power Supply Male Connector for TX HMI Devices	