

TX200 HMI/PLC Series

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

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

TX207-P3CV01



- 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 x RS232, 2 x RS422/RS485)
- 2 CAN interfaces
- 2 USB host ports

Type designation	TX207-P3CV01
Ident-No.	100002080
Display / Touch	
Display	TFT colour
Touch	Resistive
Active screen area	7"
Resolution (pixels)	800 x 480 WVGA
Format	16:9
Brightness	200 Cd/m² typ.
dimmmable	yes
Controller	
Processor	ARM Cortex A9, Dual-core 800 MHz
Memory	4096 MB
RAM memory	1024 MB
Add-on memory	2 x USB host ports
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, 4 x RS232/485/422, 2 x CAN 2 x USB host, 1 x power supply
Ethernet	ETH0 - 10/100/1000 Mbit ETH1 - 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	2x RS232, 2x RS422 / RS485, 2x CAN
Power supply	
Rated value	24 VDC, max. 0.3 A
Admissible voltage range	10...32VDC
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
Protection class	IP66 front, IP20 rear

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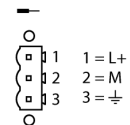
TX207-P3CV01

Dimensions

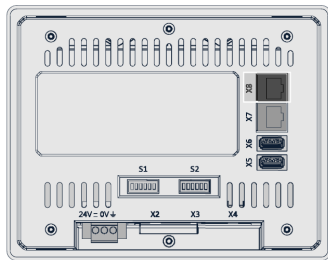
Front (W x H x D)	187x147x34mm
Cut-out (W x H)	176x136mm
Mounting depth	29+5 mm
Weight	approx. 900 kg

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Connection and pin assignment

	Power Supply The power supply connector is delivered with each device.	Pin Assignment  1 = L+ 2 = M 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  <table><tr><td>1 = GND</td><td>(COM1)</td></tr><tr><td>2 = TX</td><td>(COM1)</td></tr><tr><td>3 = RX</td><td>(COM1)</td></tr><tr><td>4 = RTS</td><td>(COM1)</td></tr><tr><td>5 = CTS</td><td>(COM1)</td></tr><tr><td>6 = GND</td><td>(COM4)</td></tr><tr><td>7 = TX</td><td>(COM4)</td></tr><tr><td>8 = RX</td><td>(COM4)</td></tr><tr><td>9 = RTS</td><td>(COM4)</td></tr><tr><td>10 = CTS</td><td>(COM4)</td></tr></table>	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)
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)																					

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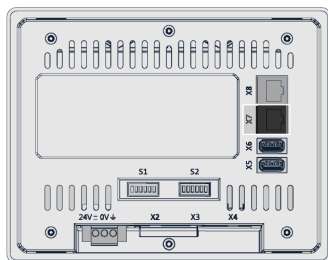
Ethernet

X8 – Ethernet Port 1 (10/100 Mbit)

Pin Assignment



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



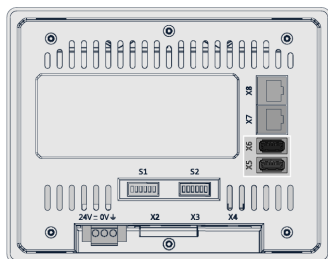
Ethernet

X7 – Ethernet Port 0 (10/100/1000 Mbit)

Pin Assignment



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