

TX400 HMI/PLC Product Series

15" Display — CODESYS V3 PLC with TARGET and WEB VI-SU

High-Quality Plastic Housing and Front Film with Capacitive Touch

TX415-P3CV01

Type	TX415-P3CV01
ID	100051170
Display/touch	
Display	TFT colour
Touchscreen	Capacitive
Active screen area	15"
Resolution (pixels)	1920 × 1080 pixels Full HD
Format	16:9
Brightness	350 cd/m² typ.
dimmmable	Yes, To 0 %
Controller	
Processor	64-bit RISC, Quad core 1.6 GHz
Memory	4 GB Flash
RAM memory	2048 MB
Add-on memory	1 x USB host port
Real time clock	Yes (battery-buffered)
PLC data	
Programming	CODESYS V3
Released for CODESYS version	V 3.5.19.20
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, 1 × CAN, 1 × RS232/RS485/RS422, 1 × USB host, 1 × power supply
Ethernet	ETH0 - 10/100 Mbit ETH1 - 10/100 Mbit
Protocols	PROFINET (Controller/Device) EtherNet/IP (Scanner/Adapter) Modbus TCP (Server/Client) EtherCAT (MainDevice)
Fieldbus	Modbus RTU (Server/Client) CANopen (Server)
USB	1 × host port
Serial	1x RS232 / RS485 / RS422, 1x CAN
Power supply	
Rated value	24 VDC, max. 2.0 A
Admissible voltage range	10...32 VDC



- 2 separate RJ45 Ethernet ports
- 1 serial interface (RS232/RS422/RS485)
- 1 CAN interface
- 1 USB host port

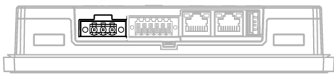
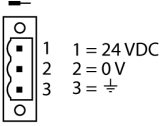
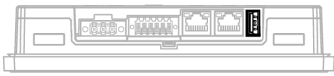
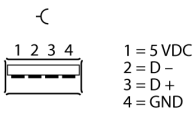
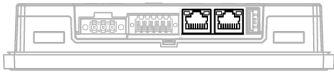
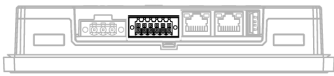
General data

Operating ambient conditions	-20...55 °C, 5...85 % relative humidity, non-condensing
Storage ambient conditions	-30...70 °C, 5...85 % relative humidity, non-condensing
Approvals	CE cULus
Protection class	IP66 front, IP20 rear NEMA type: 12/4X

Dimensions

Front (W x H x D)	267 x 422 x 45 mm
Cut-out (W x H)	411 x 256 mm
Mounting depth	35+10 mm
Weight	approx. 3.2 kg

Connection and pin assignment

	Power Supply The power supply connector is supplied with each device.	Pin assignment 
	USB Interface	Pin assignment 
	Ethernet Ethernet ports ETH0 and ETH1 (10/100 Mbit) Ethernet cables (examples): RJ45 male connector–RJ45 male connector: RJ45S-RJ45S-4422-2M (ID: 6635218) RJ45 male connector–M12 male connector, 4-pin, D-coded: RSSD-RJ45S-4422-2M (ID: 6635170) RJ45 male connector–M8 male connector, 4-pin: PSGS4M-RJ45S-4422-2M (ID: 6635247) RJ45 male connector–M12 female receptacle, 4-pin, D-coded: RJ45-FKSDD-4414-2M (ID: 6935282)	Pin assignment  1 = TX + 2 = TX - 3 = RX + 4 = n.c. 5 = n.c. 6 = RX - 7 = n.c. 8 = n.c.
	Serial Interface The serial interface can be operated either as RS232, RS485 or RS422.	Pin assignment in RS232 operating mode  1 = CAN - H 2 = CAN 120 Ohm 3 = CAN - CAN-L 4 = CAN - CAN-H 5 = CAN - GND 6 = CAN - SHIELD 7 = GND 8 = SHIELD 9 = RTS / CHA+ 10 = CTS / CHB+ 11 = TXD / CHA- 12 = RXD / CHB-

Accessories

Type code	Ident no.		Dimension drawing
TX700-MOUNT-10	100003189	TX700 mounting bracket and power connectors for 10" devices	

Function accessories

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