

## TX700 HMI/PLC Series

### 15" Display - CODESYS V3 PLC with TARGET and WEB VISU

### High-Quality Metal Housing and Glass Front with a Capacitive Touch

### TX715-P3CV01



- 15" TFT wide screen color display
- LED backlight
- 1366x768 pixel resolution
- 16 M colors
- Capacitive touchscreen with glass front
- 1 RJ45 Ethernet port with 10/100/1000 Mbit
- 2 RJ45 Ethernet ports with 10/100 Mbit
- 1 serial interface (RS232, RS485, RS422)
- 2 USB host ports
- 1 SD card slot

<b>Type designation</b>	TX715-P3CV01
Ident-No.	100002032
<b>Display / Touch</b>	
Display	TFT colour
Touch	Capacitive
Active screen area	15.6"
Resolution (pixels)	1366x768 HD
Format	16:9
Brightness	400 Cd/m <sup>2</sup> typ.
dimnable	yes,to 0 %
<b>Controller</b>	
Processor	ARM Cortex A9, Quad-core 800 MHz
Memory	8192 MB
RAM memory	2048 MB
Add-on memory	1x SD card slot, 2 USB host ports
Real time clock	yes (battery-backed)
<b>PLC data</b>	
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
<b>Interfaces</b>	
Onboard	3 × RJ45 Ethernet, 1 × RS232/485/422, 2 × USB host, 1 × power supply, 2 × expansion slot
Onboard for selection	CANopen Master (via extension module)
Ethernet	ETH0 - 10/100/1000 Mbit ETH1 - 10/100 Mbit ETH2 - 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	RS232 / RS485 / RS422
Expansion slot	2 x plug-in
<b>Power supply</b>	
Rated value	24 VDC, max. 1.2 A
Admissible voltage range	10...32VDC

## TX700 HMI/PLC Series

### 15" Display - CODESYS V3 PLC with TARGET and WEB VISU

### High-Quality Metal Housing and Glass Front with a Capacitive Touch

### TX715-P3CV01

---

**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

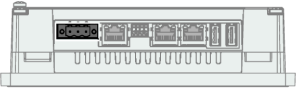
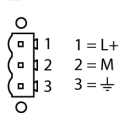
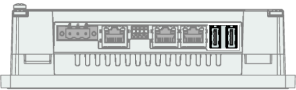
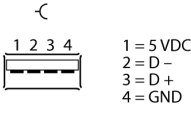
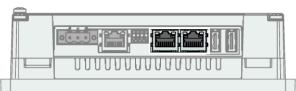

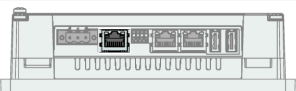

---

**Dimensions**

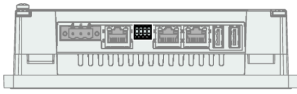
Front (W x H x D)	422x267x56mm
Cut-out (W x H)	411x256mm
Mounting depth	56+8 mm
Weight	approx. 3.6 kg

**TX700 HMI/PLC Series**  
**15" Display - CODESYS V3 PLC with TARGET and WEB VISU**  
**High-Quality Metal Housing and Glass Front with a Capacitive Touch**  
**TX715-P3CV01**

**Connection and pin assignment**

	<p><b>Power Supply</b> The power supply connector is delivered with each device.</p>	<p>Pin Assignment</p> 
	<p><b>USB Interface</b></p>	<p>Pin Assignment</p> 
	<p><b>Ethernet</b> Ethernet ports ETH1 and ETH2 (10/100 Mbit) The Ethernet ports are independent, but can be bridged with ETH0. Ethernet cables (examples): <b>RJ45 male connector – RJ45 male connector:</b> RJ45S-RJ45S-4414-2M (order number: 6441423) <b>RJ45 male connector – M12 male connector, 4-pin, D-coded:</b> RSSD-RJ45S-4414-2M (order number: 6441413) <b>RJ45 male connector – M8 male connector, 4-pin:</b> PSGS4M-RJ45S-4414-2M (order number: 6933005) <b>RJ45 male connector – M12 female receptacle, 4-pin, D-coded:</b> RJ45-FKSD-4414-2M (order number: 6935282)</p>	<p>Pin Assignment</p>  <p>1 = TX + 2 = TX – 3 = RX + 4 = n.c. 5 = n.c. 6 = RX – 7 = n.c. 8 = n.c.</p>
	<p><b>Ethernet</b> Ethernet port ETH0 (10/100/1000 Mbit)</p>	<p>Pin Assignment</p>  <p>1 = TX + 2 = TX – 3 = RX + 4 = n.c. 5 = n.c. 6 = RX – 7 = n.c. 8 = n.c.</p>

**TX700 HMI/PLC Series**  
**15" Display - CODESYS V3 PLC with TARGET and WEB VISU**  
**High-Quality Metal Housing and Glass Front with a Capacitive Touch**  
**TX715-P3CV01**



**Serial Interface**

The serial interface can be operated either as RS232, RS485 or RS422. The adjacent wiring diagrams show the respective pin assignments.

**Pin Assignment in RS232 Operating Mode**

- 1 = RX
- 2 = TX
- 3 = CTS
- 4 = RTS
- 5 = +5 VDC output
- 6 = GND
- 7 = n.c.
- 8 = shield



**Pin Assignment in RS485 Operating Mode**

- 1 = B- (RX-)
- 2 = A- (TX-)
- 3 = B+ (RX+)
- 4 = A+ (TX+)
- 5 = +5 VDC output
- 6 = GND
- 7 = n.c.
- 8 = shield




**Pin Assignment in RS422 Operating Mode**

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




**TX700 HMI/PLC Series**  
**15" Display - CODESYS V3 PLC with TARGET and WEB VISU**  
**High-Quality Metal Housing and Glass Front with a Capacitive Touch**  
**TX715-P3CV01**

**Function accessories**

Type code	Ident-No.	Description	Dimension drawing
TX-IO-XX03	6828201	Plug-In I/O-Modul - 20 DI, 12 DO, 8 AI (U / I / RTD / TC), 4 AO (U / I)	
TX-IO-DX06	6828203	Plug-In I/O-Modul - 8 DI, 6 DO, 1 Relais Output (NO)	
TX-UMTS	100009535	Plug-In Funkmodem mit 2G/3G-Unterstützung	
TX-DP-S	100010167	Plug-In Schnittstelle Profibus DP Slave, 9-polige SUB-D Kupplung	
TX-CAN	6828210	Plug-In Schnittstelle für CANopen, 9-poliger SUB-D Stecker	

**TX700 HMI/PLC Series**  
**15" Display - CODESYS V3 PLC with TARGET and WEB VISU**  
**High-Quality Metal Housing and Glass Front with a Capacitive Touch**  
**TX715-P3CV01**

**Function accessories**

Type code	Ident-No.	Description	Dimension drawing
TX-RS485	100002598	Plug-In Schnittstelle für R485 / RS422, 9-polige SUB-D Kupplung	
TX-RS232	100002599	Plug-In Schnittstelle für RS232, 9-polige SUB-D Kupplung	