TX100 HMI Series
7″ Display with TX VisuPro Runtime
High-Quality Plastic Housing with a Resistive Touch Screen
TX107D-00VPST

Type	TX107D-00VPST
ID	100031621

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.
dimmable	Yes

Controller	
Processor	ARM Cortex A9, Dual core 800 MHz
Memory	4 GB Flash
RAM memory	1024 MB
Add-on memory	1 x USB host port

Interfaces	
Onboard	1 x RJ45 Ethernet, 1 x RS232/485/422, 1 x USB host, 1 x power supply
Ethernet	1 x 10/100 Mbit
USB	1 × host port
Serial	RS232 / RS485 / RS422

Power supply	
Rated value	24 VDC, max. 0.3 A
Admissible voltage range	10…32 VDC
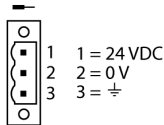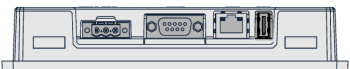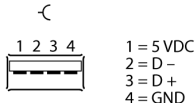
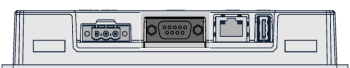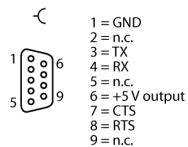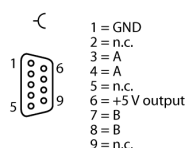| General data	
Operating ambient conditions	0…50 °C, 5…85 % rel. humidity, non-condensing
Storage ambient conditions	-20…70 °C, 5…85 % rel. humidity, non-condensing
Approvals	CE
	cULus
Ex approval	Haz. Loc. Class I, Division 2, Groups A, B, C and D
Protection class	IP66 front, IP20 rear
	NEMA type: 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
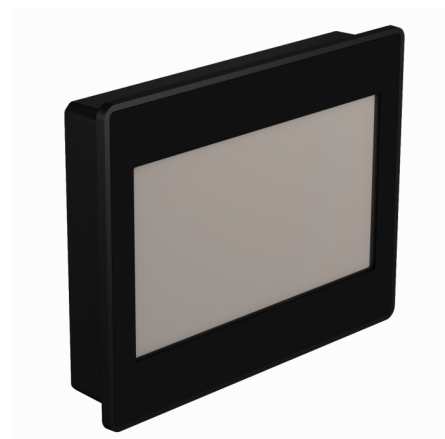
- 7" TFT wide screen color display
- LED backlight
- 800 x 480 pixel resolution
- 64 K colors
- Resistive touch screen
- 1 RJ45 Ethernet port
- 1 serial interface (RS232, RS485, RS422)
- 1 USB host port

Connection and pin assignment

	Power Supply The power supply connector is delivered with each device. It can be reordered at Turck as accessories. Type designation: TX-Mount-xx	Pin Assignment 1 = 24 VDC 2 = 0 V 3 = ⏚
	USB Interfaces	Pin Assignment 1 2 3 4 1 = 5 VDC 2 = D – 3 = D + 4 = GND
	Ethernet Ports The Ethernet ports are connected to each other via an internal switch. Ethernet cables (examples): **RJ45 male connector – RJ45 male connector:** RJ45S-RJ45S-4414-2M (order number: 6441423) **RJ45 male connector – M12 male connector, 4-pin, D-coded:** RSSD-RJ45S-4414-2M (order number: 6441413) **RJ45 male connector – M8 male connector, 4-pin:** PSGS4M-RJ45S-4414-2M (order number: 6933005) **RJ45 male connector — M12 female receptacle, 4-pin, D-coded: R**J45-FKSDD-4414-2M (order number: 6935282)	Pin Assignment 12345678 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. The adjacent wiring diagrams show the respective pin assignments. **Attention:** In the RS485 mode, pins 3 and 4 as well as 7 and 8 must be externally connected!	Pin Assignment in RS232 Operating Mode 1 = GND 2 = n.c. 3 = TX 4 = RX 5 = n.c. 6 = +5 V output 7 = CTS 8 = RTS 9 = n.c. Pin Assignment in RS485 Operating Mode 1 = GND 2 = n.c. 3 = A 4 = A 5 = n.c. 6 = +5 V output 7 = B 8 = B 9 = n.c. Pin Assignment in RS422 Operating Mode 1 = GND 2 = n.c. 3 = TX – 4 = RX – 5 = n.c. 6 = +5 V output 7 = RX + 8 = TX + 9 = n.c.

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