

# Человеко-машинный интерфейс MVisio Lite 7

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# Quick Start Guide MVisio HMI Lite

## Quick Start Guide

### Technical Data

| Display                                             | MVisio HMI Lite                         |
|-----------------------------------------------------|-----------------------------------------|
| Touchscreen Technology                              | Resistive                               |
| Display / backlight                                 | TFT Color / LED                         |
| Colors                                              | 64 000                                  |
| Resolution                                          | 800 x 480                               |
| Diagonal (Inches)                                   | 7                                       |
| Format                                              | 16:9                                    |
| Dimmable                                            | Yes                                     |
| Connections                                         | MVisio HMI Lite                         |
| Serial Connection                                   | 2x RS232, 2x RS422/485, 2x CAN          |
| Ethernet Connection                                 | 2x RJ45, 10/100 Mbit, separiert         |
| USB Connections                                     | 2x USB Host Port                        |
| Network connection:<br>Voltage<br>Current at 24 VDC | 10 to 32 VDC; preferred<br>24 VDC 0.3 A |
| SD-Card slot                                        | No                                      |
| Expansion slot                                      | No                                      |

### For your safety

#### Intended Use

The HMI (Human Machine Interface) TX207 is used to control, operate and monitor machine processes. The devices may only be used as described in these instructions. Any other usage shall be considered improper and Turck shall not be held liable for any resulting damage.

#### General Safety Instructions

- The device may only be assembled, installed, operated, parameterized and maintained by professionally-trained personnel.
- The device only meets the EMC requirements for industrial areas and is not suitable for use in residential areas.
- The device may only be used in accordance with applicable national and international regulations, standards and laws.

### Product description

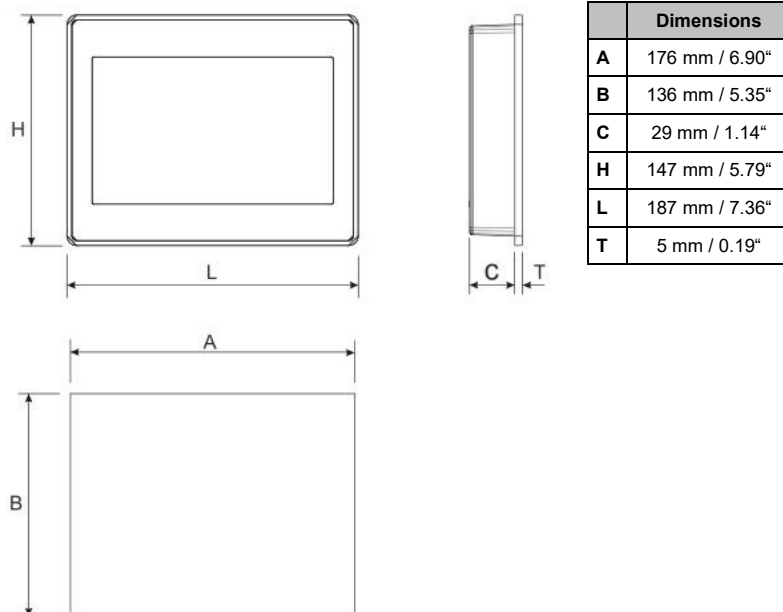
#### Functions and Operating Modes

The HMI (Human Machine Interfaces) TX207 combines control, operation and monitoring in a full-scope control thanks to the CODESYS V3 PLC with integrated visualization. The CODESYS 3 control of the TX500 has the functions PROFINET controller, EtherNet/IP™ scanner and Modbus TCP as well as Modbus RTU master. Additionally the TX207 can be used as Modbus TCP as well as Modbus RTU slave.

#### Further functions

- Ethernet TCP/IP or UDP/IP communication
- OPC UA Server and Client
- Serial communication via RS232, RS485 and RS422

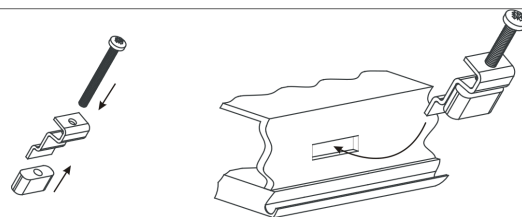
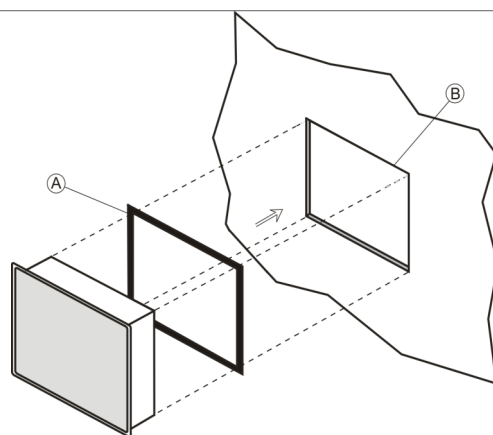
### Dimensions



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## Quick Start Guide

### Assembly



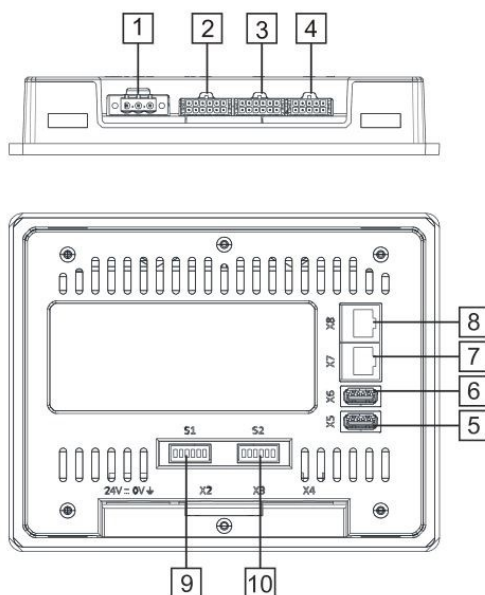
A = MVisio Pro, B = Panel cut-out

Mount the device as follows:

- Tighten each of the screws until the corners of the frame rest on the panel. The maximum tightening torque is 0.75 Nm.
- Select a mounting location so that the device is not exposed to direct sunlight.
- Do not cover the ventilation slits in the device.

### Connect

Connect the device according to the figure.



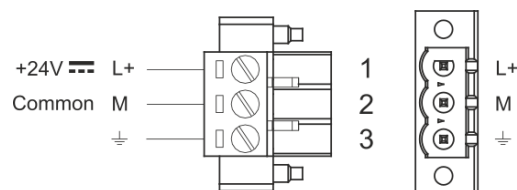
| Connection/ Slot | Function                             |
|------------------|--------------------------------------|
| 1                | Voltage supply                       |
| 2 (X2)           | RS422/485 + CAN (COM2/CAN0)          |
| 3 (X3)           | RS422/485 + CAN (COM3/CAN0)          |
| 4 (X4)           | RS232 + RS 232 (COM1/COM4)           |
| 5 (X5)           | USB-Port                             |
| 6 (X6)           | USB-Port                             |
| 7 (X7)           | Ethernet-Port 0 (10/100/1000 MBit)   |
| 8 (X8)           | Ethernet-Port 1 (10/100 MBit)        |
| 9 (S1)           | RS485 + CAN Port-Configuration (DIP) |
| 10 (S2)          | RS485 + CAN Port-Configuration (DIP) |

#### Note

Devices of protection class III to EN 61140 or class 2 to UL standard:  
All connections are SELV connections.

### Voltage supply

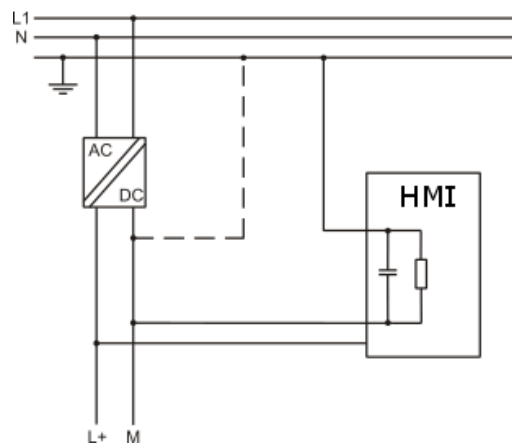
Connect the device to the supply voltage according to the illustrations.



#### Danger

Wrong choice of power supply  
**Danger to life due to overvoltage and electric shock**

- Only operate devices at SELV-power supplies

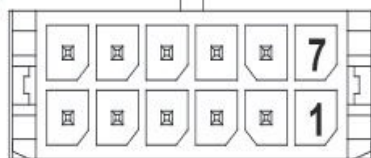


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## Quick Start Guide

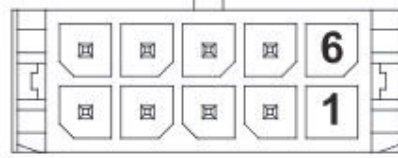
### Serial connection

RS485/CAN (X2 and X3)



| Pin | RS485                | CAN                  |
|-----|----------------------|----------------------|
| 1   | n.c.                 | GND                  |
| 2   | n.c.                 | terminating resistor |
| 3   | n.c.                 | CAN-H                |
| 4   | n.c.                 | CAN-L                |
| 5   | n.c.                 | terminating resistor |
| 6   | terminating resistor | n.c.                 |
| 7   | GnD                  | n.c.                 |
| 8   | terminating resistor | n.c.                 |
| 9   | Y (TX+)              | n.c.                 |
| 10  | Z (TX-)              | n.c.                 |
| 11  | A (RX+)              | n.c.                 |
| 12  | B (RX-)              | n.c.                 |

RS232 (X4)



| Pin | RS232 |
|-----|-------|
| 1   | GnD   |
| 2   | TxD   |
| 3   | RxD   |
| 4   | RTS   |
| 5   | CTS   |
| 6   | GND   |
| 7   | TxD   |
| 8   | RxD   |
| 9   | RTS   |
| 10  | CTS   |

CAN-Port-Configuration  
DIP-Switch S1 and S2

| Position | Description                |
|----------|----------------------------|
| 1        | CAN terminating resistor   |
| 2        | CAN terminating resistor   |
| 3        | RS485-halfduplex           |
| 4        | RS485-halfduplex           |
| 5        | RS485 terminating resistor |
| 6        | RS485 terminating resistor |

### Ground the device

- The minimum wire cross-section for the earth connection is 1.5 mm².
- Connect terminal 3 on the power supply terminal block to ground.

### Maintain

The devices must be cleaned at regular intervals with a damp cloth.

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