

Человеко-машинный интерфейс MVisio Pro 7, MVisio Pro 5

Технические характеристики

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Technical Data

Display	MVisio HMI Pro (5"-Version)	MVisio HMI Pro (7"-Version)
Touchscreen Technologie	Capacitive	Capacitive
Display / backlight	TFT Color / LED	TFT Color / LED
Colors	64 000	64 000
Resolution	800 x 480	800 x 480
Diagonal (Inches)	5	7
Format	16:9	16:9
Dimmable	Yes	Yes
Connections	MVisio HMI Pro (5"-Version)	MVisio HMI Pro (7"-Version)
Serial Connection	Software configurable RS232, RS485, RS422	Software configurable RS232, RS485, RS422
Ethernet Connection	2x RJ45, 10/100 Mbit, separated	3x RJ45, 2x 10/100 Mbit, 1x 10/100/1000 Mbit
USB Connections	1x USB 2.0	2x USB 2.0
Network connection: Voltage Current at 24 VDC	10 to 32 VDC; preferred 24 VDC 0.6 A	10 bis 32 VDC; preferred 24 VDC 0.7A
SD-Card slot	1x	1x
Expansion slot	Slot for a MVisio I/O Card	Slot for a MVisio I/O Card

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For your safety

Intended use

The HMIs (Human Machine Interfaces) of the MVisio Pro family are used to control, operate and monitor machine processes. The devices are suitable for use in Zone 2 and Zone 22. The devices may only be used as in this instructions described. Any other use is considered improper. H. Zander GmbH & Co. KG assumes no liability for any damage resulting from this.

General Safety Instructions

- Only professionally trained personnel may mount, install, operate, parameterize, program and maintain the device.
- The devices exclusively meet the EMC requirements for the industrial sector and are not suitable for use in residential areas.
- Only use the device in accordance with the applicable national and international regulations, standards and laws.

Notes on EX protection

- Observe national and international regulations for explosion protection.
- When using the device in Ex circuits, the user must have knowledge of explosion protection (EN 60079-14 etc.).
- Only use the instruments within the permissible operating and ambient conditions (see approval data and conditions of the Ex approval).
- This device, with the exception of the front display, is an open device and must be installed in a housing suitable for the environment, so that the inner part of the device is only accessible by means of a tool.
- Do not disconnect devices under voltage in an ignitable atmosphere.
- Do not open the device while it is under voltage.
- Do not remove Ethernet connections, USB devices and SD cards in an ignitable atmosphere.
- Do not remove the battery in an ignitable atmosphere.
- Before exchanging or connecting expansion modules, disconnect devices from the power supply.

Notes on EX protection (USA and Canada only)

- The devices are designed for use in Class 1, Division 2, Group A, B, C and D (hazardous or non-hazardous area).
- The power supply of the inputs and outputs (I/O) must be connected in accordance with Class I, Division 2 and in accordance with the specifications of the relevant competent authority. For the USA according to Article 501.10 (B) of the National Electrical Code, NFPA 70 or for Canada according to Section 18-1J2 of the Canadian Electrical Code.
- Only use components that meet Class 1, Division 2 certification.

Conditions imposed by the ATEX and IECEx approval for use in Zone 2 / Zone 22

- Only use the device in areas with a pollution degree of maximum 2 according to IEC/EN 60664-1.
- For use in Zone 22: Install the device in a housing with protection class IP6x approved for dust areas.
- The device must be mounted in a housing with a protection class of at least IP54 according to IEC/EN 60079-15.
- Only disconnect and connect non-intrinsically safe circuits when no voltage is applied.

Product description

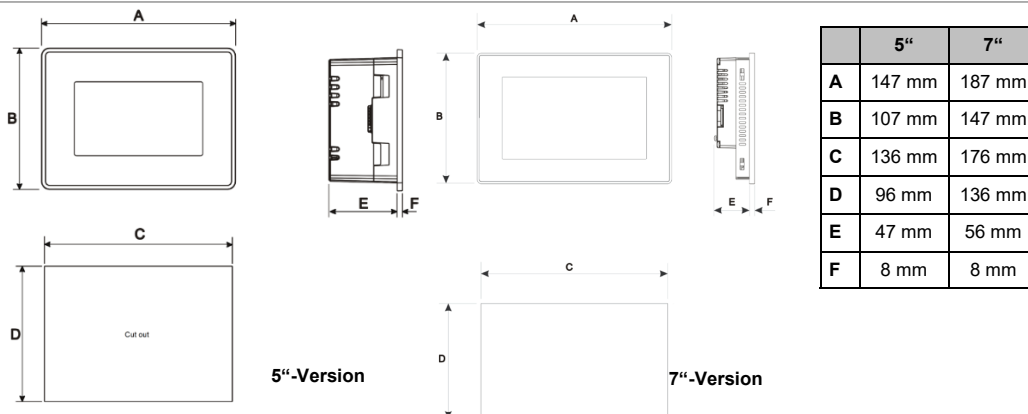
Functions and operating modes

The devices of the MVisio-Pro family combine the functions "control, operation and monitoring" by CODESYS-V3-PLC with integrated visualisation to a full-fledged control unit. The CODESYS-3 control of the MVisio-Pro devices have the functions PROFINET controller, EtherNet/IP™ scanner and Modbus TCP and Modbus RTU Master. Furthermore, the devices of the MVisio-Pro family 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

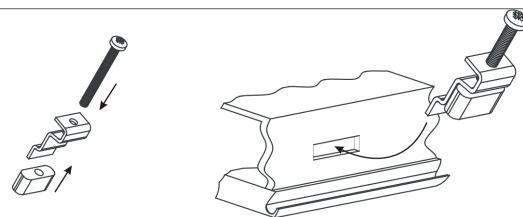
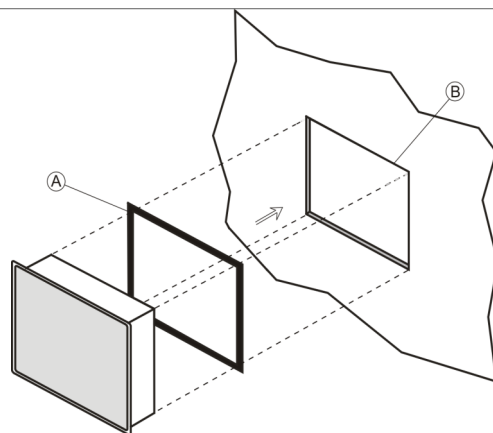
Dimensions



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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 1.3 Nm.
- Select a mounting location so that the device is not exposed to direct sunlight.
- Do not cover the ventilation slits in the device.

Danger

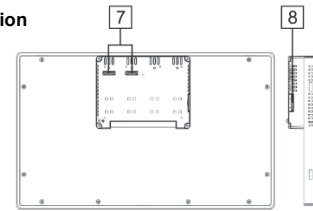
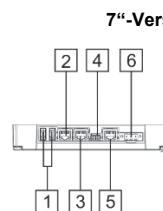
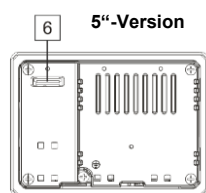
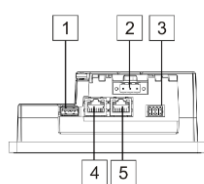
Explosion hazard due to ignitable sparks

For use in Zone 2 and Zone 22:

- Only mount the device if no explosive atmosphere is present.
- For use in zone 2: Mount the device in an Ex e housing according to EN 60079-0 with a protection class of at least IP54.
- For use in zone 22: Install the device in a housing with protection class IP6x approved for dust areas.
- When mounting in the housing, make sure that the permissible operating temperature of the device is not exceeded, even under unfavourable ambient conditions.

Connect

Connect the device according to the figure.



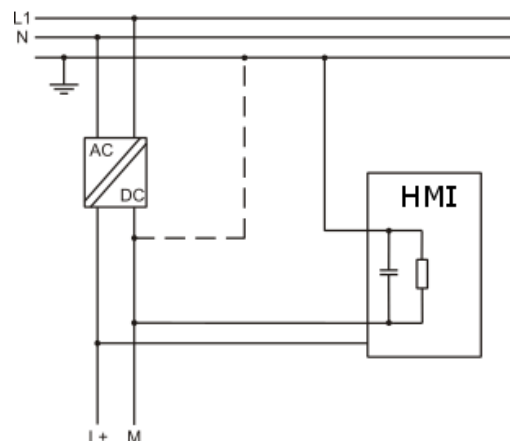
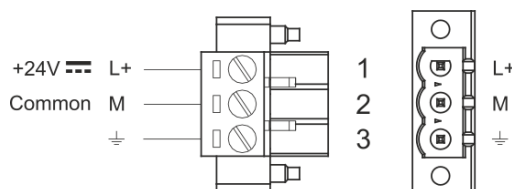
Connection/ Slot	Function
1	USB-Port , V2.0, max 500 mA (for maintenance only)
2	Voltage supply
3	Serial port
4	Ethernet-Port 0 (10/100 Mbit)
5	Ethernet-Port 1 (10/100 Mbit)
6	1 Expansionslot for Plug-In modules
7	SD-Card-Slot

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

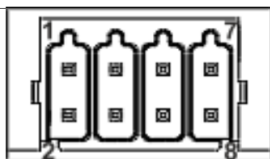
Danger to life due to overvoltage and electric shock

- Device only on SELV voltage sources according to European standard or at Class 2 voltage sources according to UL standard.

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Serial connection



Hint:

When used as RS485 interface, pins 1 and 2 as well as pins 3 and 4 must be connected externally.

Pin	RS232	RS422/RS485
1	RxD	CHB-
2	TxD	CHA-
3	CTS	CHB+
4	RTS	CHA+
5	+5V VDC output	+5V VDC output
6	GND	GND
7	n.c.	n.c.
8	SHIELD	SHIELD

Ground the device

The minimum wire cross-section for the earth connection is 1.5 mm².

- Ground the housing via the grounding screw on the back of the housing.
- Ground the instrument via clamp 3 on the power supply connection.

Put into operation

- Clean the front panel of the unit with a damp cloth before switching on to avoid any electrostatic discharge.
- Provide transient protection at the supply terminals, set to a maximum of 140% of the peak value of the rated voltage.

Operate

Operate device in Zone 2 / Zone 22

WARNING

Unsuitable voltage supply

Loss of eligibility for Class 1, Division 2

- The power supply of the inputs and outputs (I/O) must be connected in accordance with Class I, Division 2 and in accordance with the specifications of the relevant competent authority. For the USA, suitability according to Article 501.10 (B) of the National Electrical Code, NFPA 70 applies, and for Canada, suitability according to Section 18-1J2 of the Canadian Electrical Code.

WARNING

Exchange of components

Suitability for Class 1, Division 2 possibly impaired

- When replacing components, ensure that the suitability of the device for Class 1, Division 2 is not affected.
- Only use components that are suitable for use in Class 1, Division 2.
- If necessary, take measures to restore suitability for Class 1, Division 2. The units are designed for use in Class 1, Division 2, Group A, B, C and D (hazardous or non-hazardous area).

DANGER

Potentially explosive atmosphere

Explosion hazard due to ignitable sparks

For use in Zone 2 and Zone 22

- Do not disconnect the device while it is under voltage.
- Do not disconnect the device in an ignitable atmosphere.
- Disconnect device from power supply before connecting, removing or replacing expansion modules.
- Do not remove the battery in an ignitable atmosphere.

Maintain

DANGER

Potentially explosive atmosphere

Explosion by ignitable sparks

- Avoid layers of dust on the device that could cause the accumulation of static charges. The devices must be cleaned at regular intervals with a damp cloth.

Repair

The device is not intended for repair by the user. If the device is defective, take it out of operation. When returning the unit to Zander, please observe our return conditions.

Disposal

The device is equipped with a rechargeable lithium battery, which is not intended for replacement by the user.

- To dispose of it, open the back of the unit and remove the battery.
- The device and the lithium battery must be disposed of properly in accordance with the WEEE Directive 2012/19/EU and should not be disposed of in normal household waste.

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