

Человеко-машинный интерфейс MVisio Lite 4

Технические характеристики

По вопросам продаж и поддержки обращайтесь:

Алматы (727)345-47-04
Ангарск (3955)60-70-56
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Благовещенск (4162)22-76-07
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Владикавказ (8672)28-90-48
Владимир (4922)49-43-18
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89

Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Коломна (4966)23-41-49
Кострома (4942)77-07-48
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Курган (3522)50-90-47
Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Ноябрьск (3496)41-32-12
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Петрозаводск (8142)55-98-37
Псков (8112)59-10-37
Пермь (342)205-81-47

Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Саранск (8342)22-96-24
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Сыктывкар (8212)25-95-17
Тамбов (4752)50-40-97
Тверь (4822)63-31-35

Тольятти (8482)63-91-07
Томск (3822)98-41-53
Тула (4872)33-79-87
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Улан-Удэ (3012)59-97-51
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Чебоксары (8352)28-53-07
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Чита (3022)38-34-83
Якутск (4112)23-90-97
Ярославль (4852)69-52-93

Россия +7(495)268-04-70

Казахстан +(727)345-47-04

Беларусь +(375)257-127-884

Узбекистан +998(71)205-18-59

Киргизия +996(312)96-26-47

эл.почта: zrm@nt-rt.ru || сайт: <https://zander.nt-rt.ru>

Quick Start Guide MVisio HMI Lite 4

Quick Start Guide

Technical Data

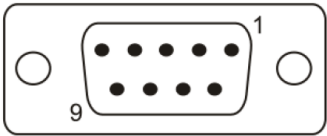
Display	MVisio HMI Lite (4"-Version)
Touchscreen Technology	Resistive
Display / backlight	TFT Color / LED
Colors	64 000
Resolution	480 x 272
Diagonal (Inches)	4.3
Format	16:9
Dimmable	Yes
Connections	MVisio HMI Lite (4"-Version)
Serial Connection	Software configurable RS232, RS485, RS422
Ethernet Connection	1x RJ45, 10/100 Mbit
USB Connections	1x USB 2.0
Network Connection: Voltage Current at 24 VDC	10 bis 32 VDC; preferred 24 VDC 0.25 A
SD-Card slot	No
Erweiterungssteckplatz	No

Imprint	Meaning
Type description	MVisio HMI Lite 4"
Model	4" Version
Ident-No.	589107
Productionyear	2024
Serial number	X999999

Versions & Accessories

Order-no. 589107	MVisio HMI Lite (4")
------------------	----------------------

Serial connection



Hint:
When used as RS485 interface, pins 3 and 4 as well as pins 7 and 8 must be connected externally.

Pin	RS232	RS422/RS485
1	GND	GND
2		
3	TX	CHA-
4	RX	CHB-
5		
6	+5V output	+5V output
7	CTS	CHB+
8	RTS	CHA+

Quick Start Guide MVisio HMI Lite 4

Quick Start Guide

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. 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.
- 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

- Only use the device in areas with a pollution degree of maximum 2 according to IEC/EN 60664-1.
- 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

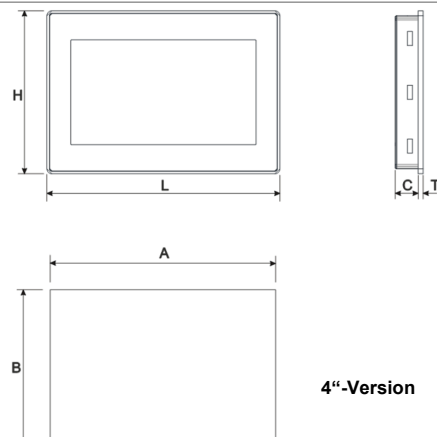
Functions and operating modes

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-Lite device can basically serve as a master/slave for PROFINET, EthernetIP, ModbusTCP and Modbus RTU. Use as an EthernetIP scanner (master) must be considered separately.

Further functions

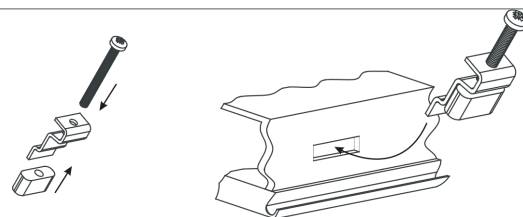
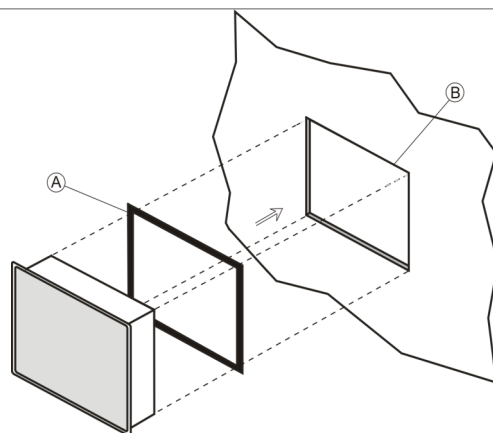
- Ethernet TCP/IP or UDP/IP communication
- OPC UA Server and Client
- Serial communication via RS232, RS485 and RS422

Dimensions



	4 Inches
A	136 mm
B	96 mm
C	29 mm
H	107 mm
L	147 mm
T	5 mm

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 75 Ncm.
- 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

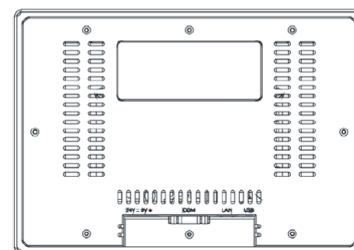
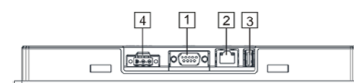
For use in Zone 2:

- 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.
- 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.

4"-Version



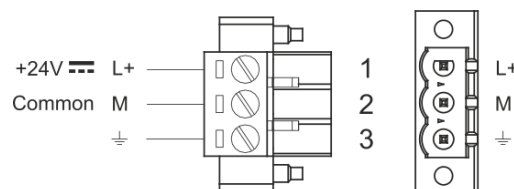
Connection / Slot	Function
1	Serial Port (5V 100mA max.)
2	Ethernet-Port 0 (10/100 Mbit)
3	USB-Port , V2.0, max 500 mA
4	Voltage Supply

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.

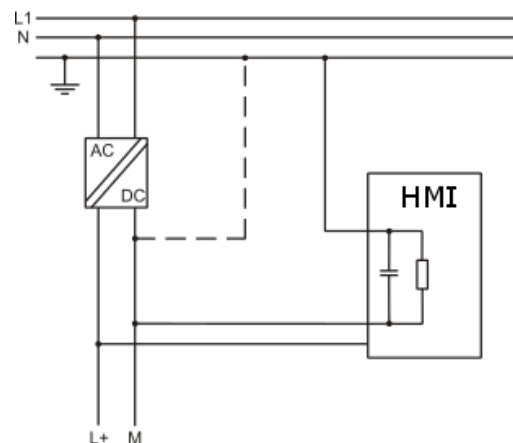


Danger

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.



По вопросам продаж и поддержки обращайтесь:

Алматы (727)345-47-04
Ангарск (3955)60-70-56
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Благовещенск (4162)22-76-07
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Владикавказ (8672)28-90-48
Владимир (4922)49-43-18
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89

Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Коломна (4966)23-41-49
Кострома (4942)77-07-48
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Курган (3522)50-90-47
Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Ноябрьск (3496)41-32-12
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Петрозаводск (8142)55-98-37
Псков (8112)59-10-37
Пермь (342)205-81-47

Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Саранск (8342)22-96-24
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Сыктывкар (8212)25-95-17
Тамбов (4752)50-40-97
Тверь (4822)63-31-35

Тольятти (8482)63-91-07
Томск (3822)98-41-53
Тула (4872)33-79-87
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Улан-Удэ (3012)59-97-51
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Чебоксары (8352)28-53-07
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Чита (3022)38-34-83
Якутск (4112)23-90-97
Ярославль (4852)69-52-93

Россия +7(495)268-04-70

Казахстан +(727)345-47-04

Беларусь +(375)257-127-884

Узбекистан +998(71)205-18-59

Киргизия +996(312)96-26-47

эл.почта: zrm@nt-rt.ru || сайт: <https://zander.nt-rt.ru>