

v430 web panel



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About this document

These instructions are valid for the product series of the v430 web panels:

Web panel				
Screen diagonal	in	7	10.1	15.6
Type code		V43AE70000000S	V43AEA00000000S	V43AEF00000000S

 **WARNING!**

Read this documentation carefully before starting any work.

- Please observe the safety instructions!



Further documents



Information and tools with regard to the Lenze products can be found on the Internet:

www.lenze.com → Downloads



Notations and conventions

Layout of the safety instructions

DANGER!

Indicates an extremely hazardous situation. Failure to comply with this instruction will result in severe irreparable injury and even death.

WARNING!

Indicates an extremely hazardous situation. Failure to comply with this instruction may result in severe irreparable injury and even death.

CAUTION!

Indicates a hazardous situation. Failure to comply with this instruction may result in slight to medium injury.

NOTICE

Indicates a material hazard. Failure to comply with this instruction may result in material damage.



Safety instructions

Basic safety instructions

Disregarding the following basic safety instructions and safety information may lead to severe personal injury and damage to property!

- Only use the product as directed.
- Never commission the product in the event of visible damage.
- Never modify the product technically.
- Never commission the product before assembly has been completed.
- Never operate the product without the required covers.
- Connect/disconnect all pluggable connections only in deenergized condition!
- Only remove the product from the installation in the deenergized state.
- The product can – depending on their degree of protection – have live, movable or rotating parts during or after operation. Surfaces can be hot.
- Observe the specifications of the corresponding documentation. This is the condition for safe and trouble-free operation and the achievement of the specified product features.
- The procedural notes and circuit details given in the associated documentation are suggestions and their transferability to the respective application has to be checked. The manufacturer of the product does not take responsibility for the suitability of the process and circuit proposals.
- All work with and on the product may only be carried out by qualified personnel. IEC 60364 and CENELEC HD 384 define the qualifications of these persons:
 - They are familiar with installing, mounting, commissioning, and operating the product.
 - They have the corresponding qualifications for their work.
 - They know and can apply all regulations for the prevention of accidents, directives, and laws applicable at the place of use.



Application as directed

- The product is a professional equipment intended for use by trades, specific professions or industry and not for sale to the general public. IEC 60050 [IEV 161-05-05]
- To prevent personal injury and damage to property, higher-level safety and protection systems must be used!
- All transport locks must be removed.
- The product may only be operated under the specified operating conditions and in the specified mounting positions.
- The product is only suitable for installation in control cabinets and, depending on the protection class and version, for wall mounting or support arm mounting.
- The product may only be operated to implement control concepts, operating concepts or to display information.
- The product must not be operated in private areas, in potentially explosive atmospheres and in areas with harmful gases, oils, acids and radiation.



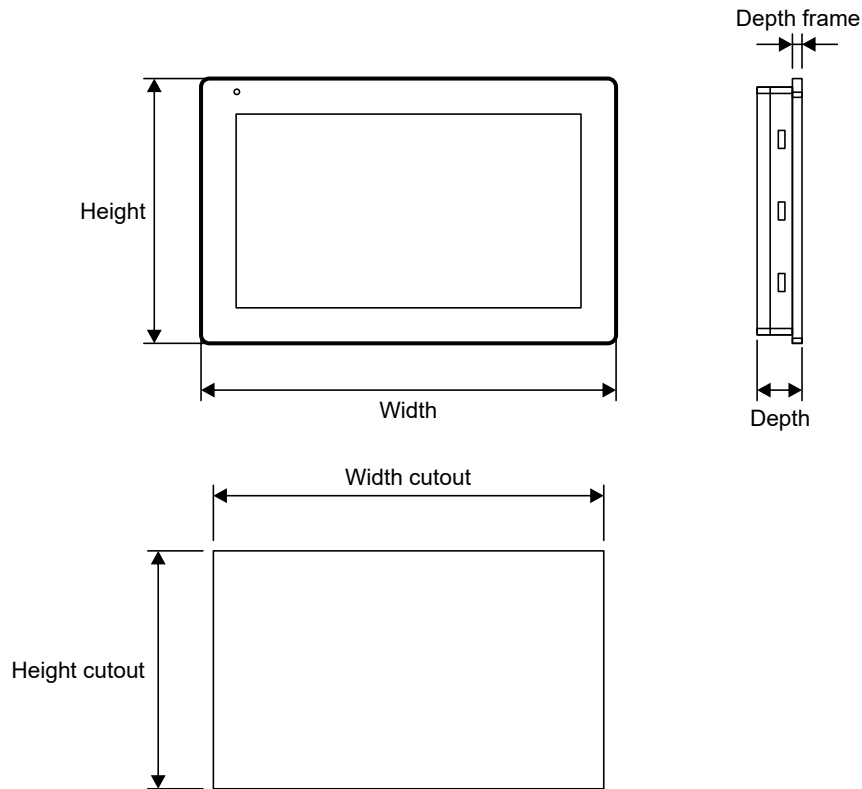
Handling

- Always keep the front panel of the product clean: The product may only be cleaned with a soft cloth and a neutral soap product. Do not use solvents!
- Do not use tools (e. g. screwdriver) to operate the product.



Mechanical installation

Dimensions



Web panel			V43AE7	V43AEA	V43AEF
Screen diagonal		in	7	10.1	15.6
Height		mm	147	197	267
Height		in	5.79	7.76	10.51
Width		mm	187	282	422
Width		in	7.36	11.10	16.61
Depth		mm	37	37	45
Depth		in	1.45	1.45	1.77
Depth frame		mm	8	8	10
Depth frame		in	0.31	0.31	0.39
Height cutout		mm	136	186	256
Height cutout		in	5.35	7.32	10.08
Width cutout		mm	176	271	411
Width cutout		in	6.93	10.67	16.18
Weight	m	kg	0.7	1.3	3.2
Weight	m	lb	1.54	2.9	7.1

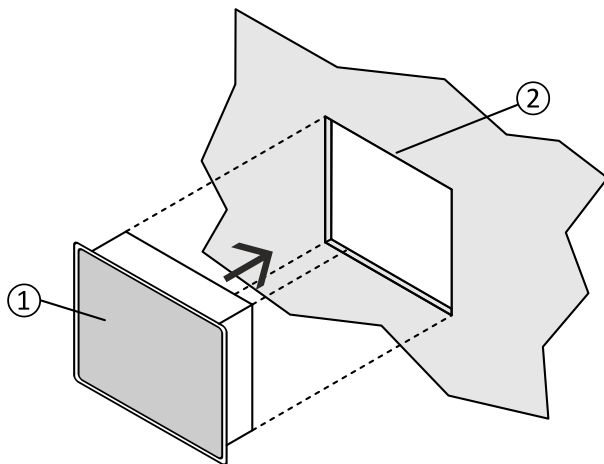
Mounting

NOTICE

Improper installation

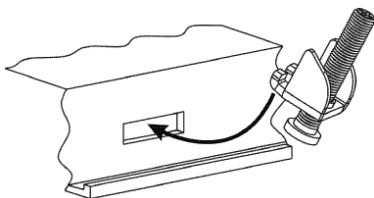
Possible consequence: Material damage

- ▶ Place the device so that it is not exposed to prolonged sunlight to avoid overheating the device.
- ▶ Make sure that the device does not come into contact with corrosive chemical compounds.
- ▶ Install the device in a housing that has at least protection class IP54 according to EN 60529.



1 Web panel

2 Mounting cutout



Tightening torque for holding clamp: 0.75 Nm / 6.6 lb-in

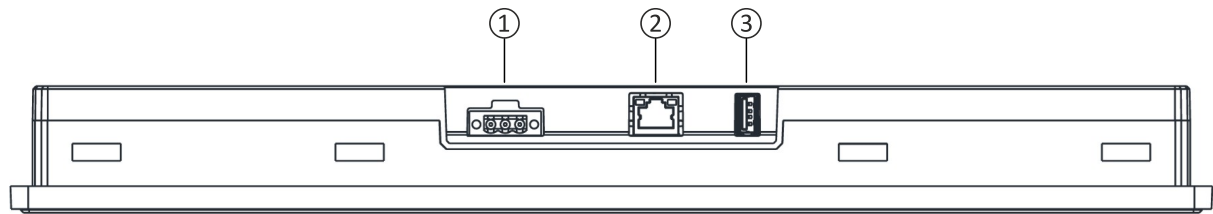
Required tool: Screwdriver PH2



Electrical installation

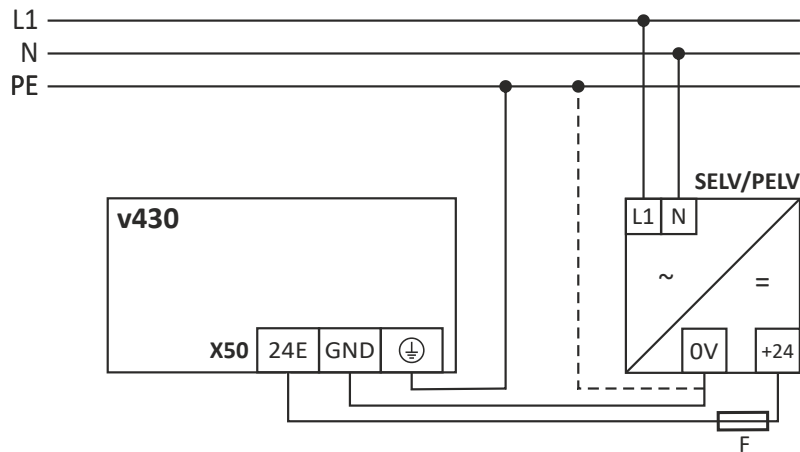
- i** If the PE conductor is not supplied with the power supply, the PE potential must be connected to a grounding point near the mounting location.
- i** Use a shielded network cable of category CAT 5 or higher for the network connection.
- i** For the integrated hardware real-time clock, the devices are equipped with a rechargeable battery that cannot be replaced by the user.
After installation, the rechargeable battery must first be charged for 48 hours via the power supply. When the rechargeable battery is fully charged, a backup time from 3 months for date and time at 25 °C is guaranteed.

Connections on the underside of the device



- 1 Mains connection (X50)
- 2 Ethernet connection (X11)
- 3 USB connection (X61)

Wiring diagram



X50	Pin	Assignment	Connection type
	1	+24 V DC (18 ... 32 V DC)	3-pole socket with 0.2 in pitch
	2	GND	
	3	⊕	



Web panel			V43AE70000000S	V43AEA00000000S	V43AEF00000000S
Screen diagonal		in	7	10.1	15.6
Connection type			Mains connection		
Connection designation			X50		
Connection type			Pluggable		
Max. cable cross-section		mm ²	4	4	4
Max. cable cross-section		AWG	12	12	12
Min. cable cross-section		mm ²	0.25	0.25	0.25
Min. cable cross-section		AWG	24	24	24
Stripping length		mm	7	7	7
Stripping length		in	0.28	0.28	0.28
Tightening torque		Nm	0.5	0.5	0.5
Tightening torque		lb-in	4.4	4.4	4.4
Max. input power		W	9.6	12	18



Technical data

Standards and operating conditions

Conformities and approvals

Conformities			
CE	2011/65/EU		RoHS Directive
	2014/30/EU		EMC Directive
UKCA	S.I. 2012/3032		The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012
	S.I. 2016/1091		The Electromagnetic Compatibility Regulations 2016
UL	UL 61010-1		Process Control Equipment
	UL/CSA/IEC 61010-2-201		



Our declarations and certificates contain further information. These can be found on the Lenze homepage in the download area of the technical documentation of the product:

www.Lenze.com → Downloads

Protection of persons and device protection

Degree of protection			
EN	EN IEC 60529	IP66 (front), IP20 (rear)	

EMC data

Noise emission			
Industrial premises	EN IEC 61000-6-4		
Noise immunity			
Industrial premises	EN IEC 61000-6-2		

Environmental conditions

Climate			
Operation	EN IEC 60068-2-14	-20 ... +60 °C	
Humidity	EN IEC 60068-2-30	Non-condensing	5 ... 85 % relative humidity
Storage	EN IEC 60068-2-1	-30 ... +80°C	
	EN IEC 60068-2-14		
Pollution			
	EN IEC 60664-1	Degree of pollution 2	
Vibration resistance			
Vibrations	EN IEC 60068-2-6	1 g	9 ... 150 Hz
		7 mm p-p	5 ... 9 Hz
Shock	EN IEC 60068-2-27	± 50 g, 11 ms	3 pulses per axis



Environmental notes and recycling

Lenze products are intended for use by companies in industrial environments. This means that they are also subject to requirements regarding recycling and disposal. Both mechanical and electrical components such as electric motors, gearboxes, and inverters contain valuable raw materials that can be recycled and reused. Proper recycling is important and sensible from both an economic and ecological perspective.

For information on the proper disposal and legal requirements of our products, please refer to the information on the respective product page on the Internet:

<https://www.lenze.com/en-de/products>

If you require support, please contact your local branch:

<https://www.lenze.com/en-de/company/global-presence>

Note: By disposing of devices and packaging properly, you are helping us to protect the environment and conserve resources.



Further information on Lenze's environmental and climate responsibility and on the topic of energy efficiency can be found on the Internet:

<https://www.lenze.com/en-de/company/sustainability>

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