

Technical Specifications

Safety and environmental conditions

CE marking	LV directive 2014/35/EU RoHS directive (EU) 2015/863
Standard	EN 61010:2010/A1:2019* EN 60947-7-3:2009** WEEE directive 2012/19/EU

* Maximum temperature of the busbar: 120°C (Sum of the busbar temperature rise and the ambient temperature)

** Only applicable to article number 500040

The UAK is only suitable for busbar. This product is designed to be safe under the following conditions:

Specifications

Environmental conditions Standard: Class: Operating temperature: Relative humidity: Operating height: Protection degree: Pollution degree: Measurement category:	IEC 60721-3-3:1996 3K3 +5°C - +40°C 5% - 85%, non condensing 0..2000m over NN IP20 2 CAT III
Application conditions Primary: Umax: Test voltage: Impulse voltage: Imax: Voltage drop: Fuse (UAK4Z):	Busbar 690Vac 3kV / 50Hz 6kV 1,2 / 50µs 2A <500mVac 5x25mm (with indicator) 10A SIBA DIN41576-2 1mm² flexible, 50cm, end-sleeve 1.5 – 2.0Nm
Storage Temperature: Relative humidity: Material:	-20°C - +70°C 5% - 85%, non condensing PA 6.6, UL94 V2

Specifications per type

	UAK4Z	UAK16	UAK16N
With fuse	Yes	No	No
Weight (gr)	160	160	160
Connection	1,5-4mm²	0,1-16mm²	0,1-16mm²
Colour	Black	Black	Blue

Safety instruction

All activities for installation, commissioning and maintenance of this voltage tap must be performed by qualified personnel that have the knowledge of applicable safety precautions. This guide assumes that the reader of this document has sufficient electro-technical knowledge to understand the content of this document.

General

The UAK is a voltage tap for busbar and can only be used measuring electrical voltages. The UAK is suitable for measurement purposes only. The UAK should be mounted on the primary conductors in a weather protected and dry location.

Explanation of symbols



2014/35/EU.



This product is designed according to the EN-IEC 61010-1:2010 standards and therefore this product meets the requirements of the Low Voltage Directive 2014/35/EU.

Read the installation guide before mounting the product. Unprofessional work activities on electrical installations may result in a threat of danger to the life and health of human beings and livestock!

RoHS Directive (EU) 2015/863

ELEQ states that they only uses qualified component in their products from manufacturers, whose specifications meet or exceed the requirements of the European Directive for the Restriction of use of certain Hazardous Substances.

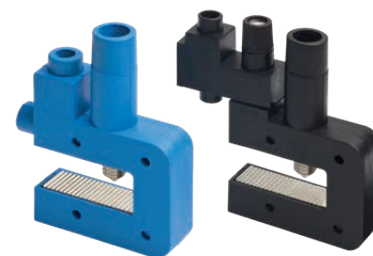
WEEE Directive 2012/19/EU

The 'crossed out wheeled bin' symbol indicates that the equipment should not be disposed as unsorted municipal waste. Contact a qualified recycler for disposal.



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UAK (Fused) Voltage Tap Installation Guide



UAK4Z
UAK16
UAK16N

(Fused phase, 500040)
(Phase, 500041)
(Neutral, 500042)

Read this installation guide before installing the product

ELEQ reserves the right to carry out modifications on its products, in order to improve them, without prior notice.

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Always avoid working on live parts of an installation.

Assembly black fused UAK

Attention

Remove the fuse during assembly of the UAK4Z.

1. Ensure a safe working area during assembly, maintenance and inspection of the voltage tap. Disconnect the power of the primary circuit and make sure it can not be enabled unintentionally.
2. Mount the voltage tap around the busbar which should be tapped by turning the lower part.

Attention

Please note, the screwhead of the UAK should be positioned straight above the busbar when mounting.

3. Connect the secondary lead to the high impedance voltage input of the measurement instrument (e.g., a voltmeter or voltage input of kWh-meter).
4. Install the fuse.
5. Check if the easy voltage tap is mounted properly. Check if the secondary lead is connected properly and firmly.
6. Mark the label of the UAK with year, month and number of repeat installations.
7. Enable the primary circuit.

Assembly blue UAK

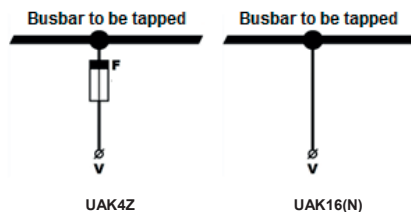
Attention

The UAK16N is only meant for assembly on a neutral.

1. Ensure a safe working area during assembly, maintenance and inspection of the voltage tap. Disconnect the power of the primary circuit and make sure it cannot be enabled unintentionally.

2. Connect the secondary lead to the high impedance voltage input of the measurement instrument (e.g., a voltmeter or voltage input of kWh-meter).
3. Mount the voltage tap around the busbar which should be tapped by turning the lower part.
4. Check if the voltage tap is mounted properly. Check if the secondary lead is connected properly and firmly.
5. Mark the label of the UAK with year, month and number of repeat installations.
6. Enable the primary circuit.

Wiring Diagram



Maintenance and inspection

- Check whether the secondary lead is connected firmly.
- Check whether the easy voltage tap is mounted firmly.

Attention

Always avoid working on live parts of an installation.

Problem solving

e.g. unexpected values, incorrect values

- Check the settings of the meter by using the installation guide of the meter.
- Check whether the voltage tap is mounted on the intended cable.



Disassembly instruction

To disconnect the meter from the voltage tap, please consult the installation guide of the meter.

1. Ensure a safe working area during disassembling the voltage tap. Disconnect the power of the primary circuit and make sure it cannot be enabled unintentionally.
2. UAK4Z: Remove the fuse and disconnect the measurement device. As next step remove the UAK from the connector.
- UAK16 and UAK16N: Remove the UAK from the connector and disconnect the measurement device.
3. Repair or replace the busbar after removal to ensure safe isolation. Not repairing the busbar may result in an unsafe situation.
4. Enable the primary circuit if is necessary.

Recycling

When the product has reached 'end of life', it must be recycled. Do not dispose this product as unsorted municipal waste. Contact a qualified recycler for disposal.