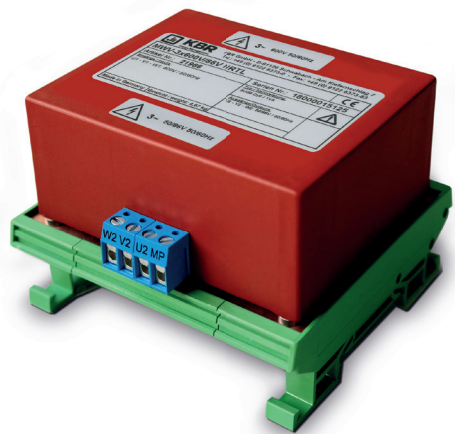




User manual Technical parameters

Measuring transducer adapter MWV



**Your partner for
network analysis**

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Dear customer

Thank you for choosing a KBR product.

To familiarize yourself with the operation and configuration of the device, we recommend that you read this manual carefully. This way, you will be able to use of the entire range of functions that this high-quality product has to offer.

The individual chapters explain the technical details of the device and show how to properly install and start it up to prevent damage.

This user manual is included in the scope of delivery of the device and must be accessible to the user at all times (e.g. in the switchgear cabinet). Even if the device is resold to third parties, the manual remains an inherent part of the device.

Although the utmost care has been taken in putting together this user manual, errors may still occur. We would be very grateful if you could notify us of any errors or unclear descriptions you may notice. The form included in the appendix to this manual can be used to send us corrections or suggested improvements.

Yours sincerely,

KBR GmbH Schwabach

This manual contains notes that must be observed for your personal safety and to prevent damage to the equipment. These notes are identified by a warning sign or information symbol, depending on the degree of hazard they warn about.



DANGEROUS VOLTAGE

means that death, major injury or substantial property damage may occur if the appropriate safety measures are not taken.



CAUTION

means that minor injuries or property damage may occur if the appropriate safety precautions are not taken.



NOTE

is an important piece of information on the product, product handling or the respective part of the user manual to which special reference is made.

Disclaimer

The contents of this manual have been checked to concur with the described hardware and software components. However, deviations may occur, meaning that no guarantee can be made for complete agreement with the documentation. The specifications given in this manual are checked on a regular basis; necessary corrections will be included in the next revision.

We appreciate your corrections and comments.

Safety notes

In order to prevent operating errors, handling of the device has been kept as simple as possible. This will enable you to use the device very quickly. Be sure to carefully read the following safety notes.



DANGEROUS VOLTAGE

The applicable DIN/VDE regulations must be observed for installation!

Power supply connection, setup and operation of the device may only be performed by qualified personnel. Qualified personnel as defined in the safety notes in this user manual are personnel with electrical engineering qualifications, knowledge of the national accident prevention regulations and safety engineering standards as well as of the installation, commissioning and operation of the device.

To prevent fire and electric shock, do not expose the device to rain or moisture! Before connecting the device to the power supply, check whether the local power supply conditions comply with the specifications on the device nameplate.

A faulty connection may result in the destruction of the device!

When connecting the device, ensure that the data given in the connection chart is complied with (see "Connection diagram") and that the connection cables are not live. When wiring, always ensure that all wiring material used is neither damaged nor defective and that the polarity is correct!

For proper and safe product operation, ensure that the device is transported, stored, installed, assembled, and carefully operated and maintained in accordance with the specifications.

A visibly damaged device must generally be considered unfit for use and disconnected from the power supply. Troubleshooting, repairs and maintenance work may only be carried out in our facilities or after contacting our service team.

Opening the device without authorization will render your warranty null and void. Correct operation can no longer be guaranteed!

All input and output cables of systems that are at risk from lightning strikes must be fitted with lightning protection (see chapter "Protective measures" for recommendations).

Product liability

You have purchased a high-quality product.

Only components of the highest quality and maximum reliability are used.

Each device is subject to long-term testing before it is delivered.

For details on product liability, please refer to our general terms and conditions for electronic equipment.

The warranty on device properties applies only if the device has been operated in accordance with its intended use!

Disposal

Devices that are faulty, obsolete or no longer used, must be properly disposed of.

If required, we will dispose of the devices for you.

Scope of delivery

Included in the scope of delivery:

- Device KBR MWV measuring transducer adapter
- User manual including technical parameters

1 Application

With the measuring transducer adapters (zero-point creators), you can create a virtual low-impedance neutral point for the measuring device in a three-phase network without neutral conductor.

In the 600 or 700-V version, you can also use it to adapt the measuring voltage to the measuring devices.



NOTE

Make sure that the measuring devices are configured for operation with a zero point creator.

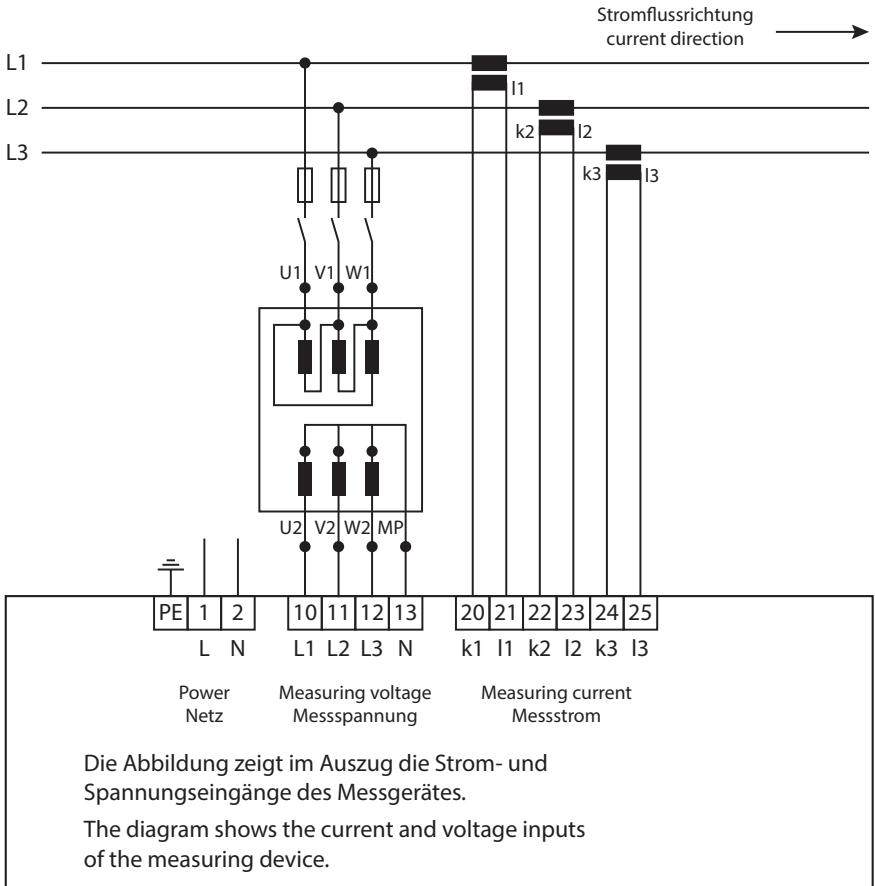
1.1 The following transducer types are available:

Type 400/100:	Primary:	400 V phase-phase voltage	IEC
	Secondary:	100 V phase-phase voltage	IEC
Type 600/86	Primary:	600 V phase-phase voltage	UL (NRTL)
	Secondary:	86 V phase-phase voltage	UL (NRTL)
Type 700/100	Primary:	700 V phase-phase voltage	IEC
	Secondary:	100 V phase-phase voltage	IEC

2 Installing the device

The housing of the transducer attachment is designed for mounting in the cabinet to 35 mm standard rail. The module is snapped on the standard rail.

3 Connection diagram



DANGEROUS VOLTAGE

The voltage inputs and outputs are not safe to touch.



CAUTION

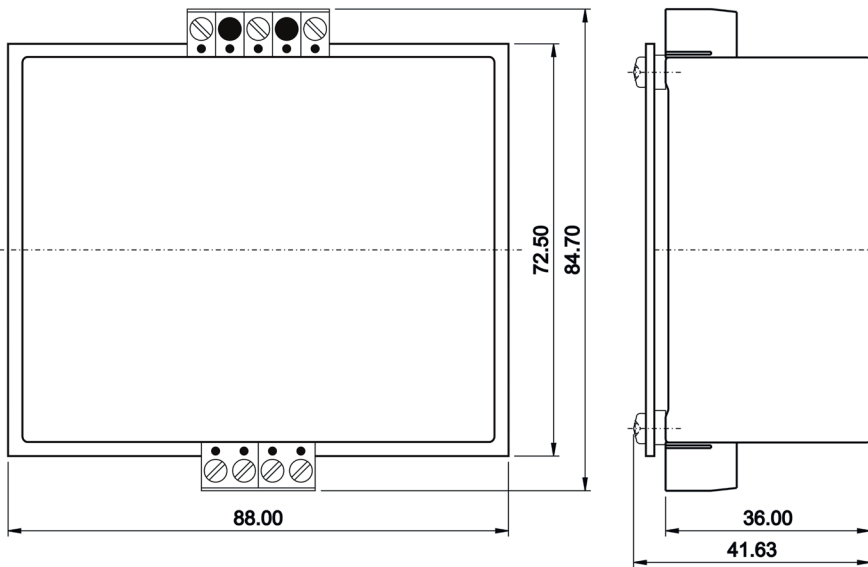
The device is not suitable for direct current.



CAUTION

Protect the primary voltage with a back-up fuse. Include a disconnect or circuit-breaker in the electrical installation of the building. The disconnect must be close to the device and accessible to the user. It must be marked as an isolating switch for this device. The isolating switch must be UL/IEC approved.

4 Dimensions



5 Technical data

Type 400 / 100 V – IEC	
Primary voltage:	400 V Ph-Ph
Secondary voltage:	100 V Ph-Ph or 57.7 V Ph-Mp
Power	Max. 1 VA
Housing	DIN rail installation
Weight	Approx. 650 g
Dimensions	Approx. 87 x 72 mm
Voltage input fuse	Max. 1 A slow-blow or C2 automatic

Type 600 / 85.7 V – UL (NRTL)	
Primary voltage:	600 V Ph-Ph
Secondary voltage:	85.7 V Ph-Ph or 49.5 V Ph-Mp
Power	Max. 1 VA
Housing	DIN rail installation
Weight	Approx. 650 g
Dimensions	Approx. 87 x 72 mm
Voltage input fuse	Max. 1 A slow-blow or C2 automatic

Type 700 / 100 V – IEC	
Primary voltage:	700 V Ph-Ph
Secondary voltage:	100 V Ph-Ph or 57.7 V Ph-Mp
Power	Max. 1 VA
Housing	DIN rail installation
Weight	Approx. 650 g
Dimensions	Approx. 87 x 72 mm
Voltage input fuse	Max. 1 A slow-blow or C2 automatic

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