

short manual universal measuring transducer type UMU 100...

safety instructions !!!

intended use of the product

- The UMU 100 has been designed exclusively for the intended use described here or in the data sheet and may only be used in this way.
- The technical specifications in this short manual must be observed.
- Improper handling or operation of the device outside of its technical specifications requires the device to be taken out of service immediately and an inspection by promesstec.
- When the device is transported from a cold into a warm environment, the formation of condensation may result in the device malfunctioning.
- Before putting it back into operation, wait for the device temperature and the room temperature to equalise.

The manufacturer shall not be liable for claims of any type based on operation contrary to the intended use!!

staff qualification

Improper handling of the UMU 100 can result in considerable personal injury and damage to the equipment. The activities described in these operating instructions may only be carried out by skilled staff who have the appropriate qualifications. For installation and starting of the UMU 100, the relevant regulations and directives of the country and the norms must be observed. The safety instructions must be observed. There will be danger to life if live parts are touched. Electrical installation and commissioning may only be carried out by qualified and skilled personnel.

special hazards

Do not use the UMU 500 in safety or emergency stop devices. Incorrect application or operation of the device can lead to injuries. When cleaning the UMU 500, do not use chemicals, volatile solvents such as thinners or strong cleaning agents. It can result in deformation of the housing as well as to an impairment of the operation. Use only a soft cleaning towel.

hazards when operating the device

When cleaning your unit with high-pressure cleaners, steam cleaners, etc. make sure that the UDA 100 does not come into contact with moisture. If the temperature falls below the dew point, condensation may form in the connection chamber of the device. In such extreme applications, contact our sales and technical support before commissioning.

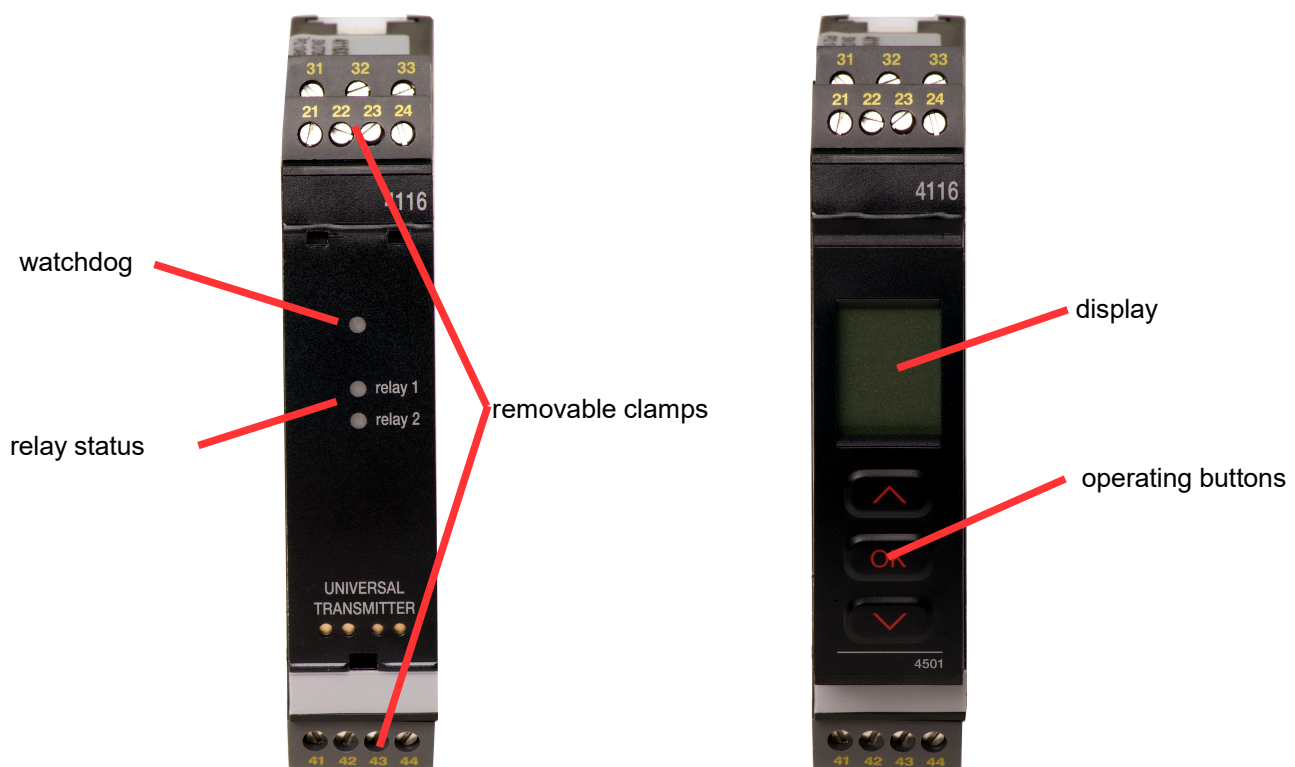
measuring transducer

overview UMU 100

features

The UMU 100 is a universal measuring transducer for DIN rail mounting and is used for measuring voltage/current, temperature sensors and potentiometers and converting them into standardized signals. The configuration is done via 3 front buttons with the optional display UMU-FD. An integrated programming lock prevents unwanted changes to parameters and can be unlocked again via an individual code.

overview representation



UMU 100... **without** display UMU-FD

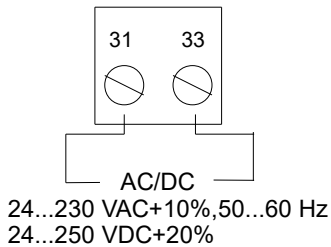
UMU 100... **with** display UMU-FD

measuring transducer

electrical connection UMU 100

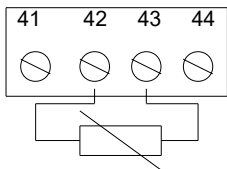
terminal assignments

power supply

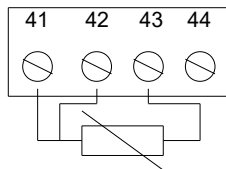


inputs

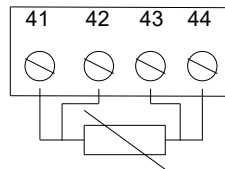
WTH, 2-wire



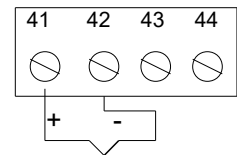
WTH, 3-wire



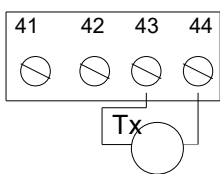
WTH, 4-wire



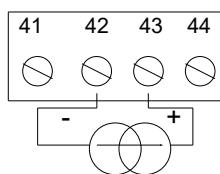
TE



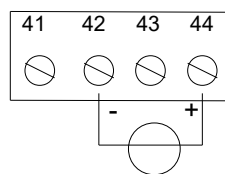
2-wire transmitter



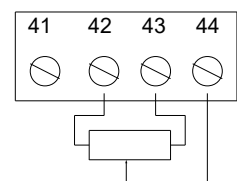
current



voltage

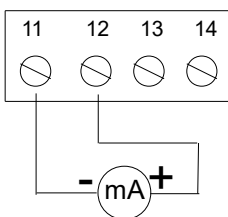


poti

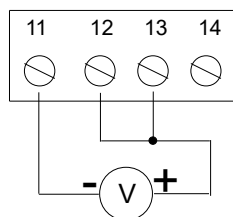


analog output (optional)

Strom 0/4...20mA

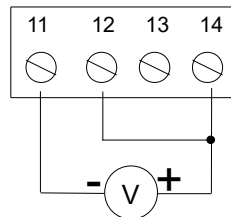


Spannung 0...1V



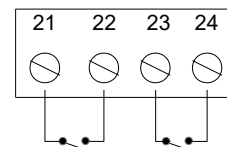
Brücke beachten !!!

Spannung 0...10V



Brücke beachten !!!

relay output (optional)



Further connection diagrams and the complete user manual can be found on our homepage.

measuring transducer

mounting instructions !!!

mechanical installation

- The UMU 500 is not designed for a potentially explosive area. There is a risk of explosion.
- The UMU 500 is designed for installation in a switch cabinet or a closed housing. It is snapped onto the top-hat rail. During installation, ensure that the housing is not mechanically braced.
- When selecting the installation location, ensure that the UMU 500 is kept away from shock, vibration and electromagnetic fields, such as frequency converters, motors and from transformers.

electrical mounting

- All electrical work is to be carried out only in a de-energized state.
- The supply circuit must be protected by a suitable protective device. The fuse should be selected as low as possible.
- Keep signal and supply voltage lines separate from each other. If this is not possible, use shielded cables for signal wiring.

important information !!!

return and repair

The promesstec sensors have a modular design. This allows us to repair and overhaul defective devices. To do this, send the device to promesstec. You will find a return form with the information to be provided on our homepage under "technical information".

disposal of the devices

Dispose of devices, components and packaging in an environmentally friendly manner in accordance with the waste treatment and disposal regulations typical for the country. Pay attention to waste separation and the recycling of high-quality materials such as stainless steel, etc.

further documentation

You can find this short manual, the data sheets and a complete manual as a file on our homepage under the respective devices. The documentation is available in German as well as in English. Other languages on request.

