short manual universal measuring transducer
type UMU 500...

safety instructions !!!

intended use of the product

- The UMU 500 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 500 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 500, 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 system with high-pressure cleaners, steam cleaners, etc., make sure that the UMU 500 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.

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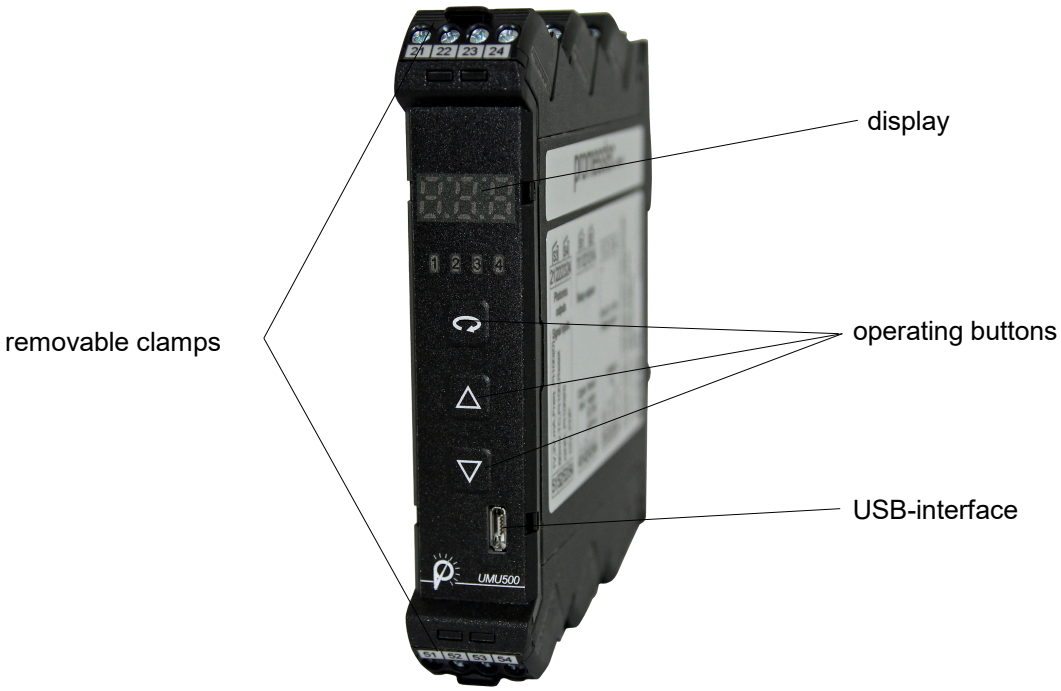
overview UMU 500

features

The **UMU 500** is a universal measuring transducer with a 3-digit digital display for DIN rail mounting and is used for measuring voltage/current, temperature and frequency and converting them into standardized signals. The configuration is done via 3 front keys or optionally via PC software PM-TOOL.
An integrated programming lock prevents unwanted changes to parameters and can be unlocked again via an individual code. Optionally, the display can be extended with a sensor supply, an analog output, an interface RS232/RS485 (in preparation) (Modbus protocol), as well as 4 switching points.

overview representation



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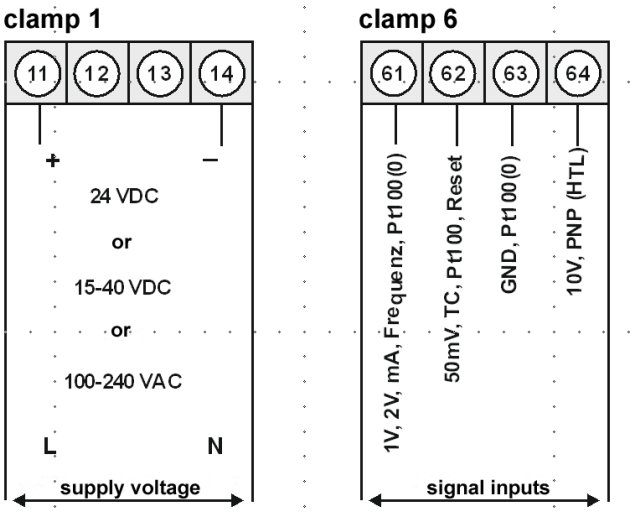
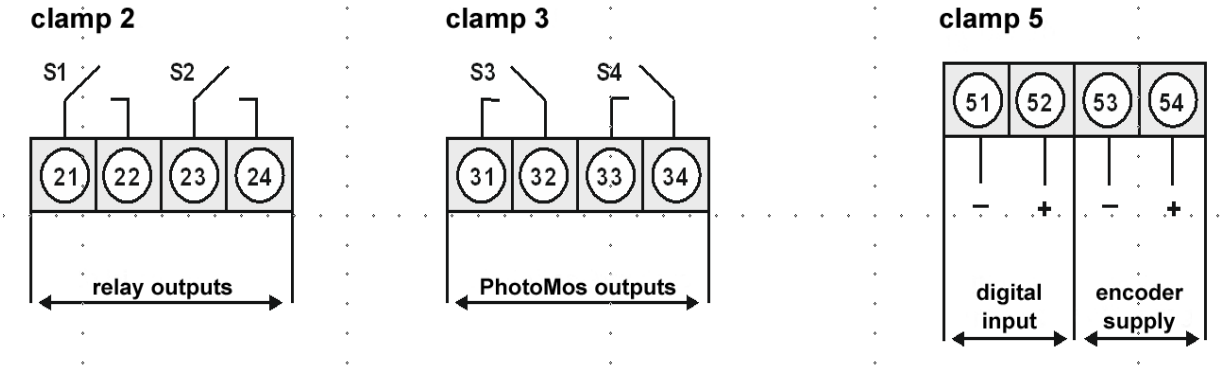
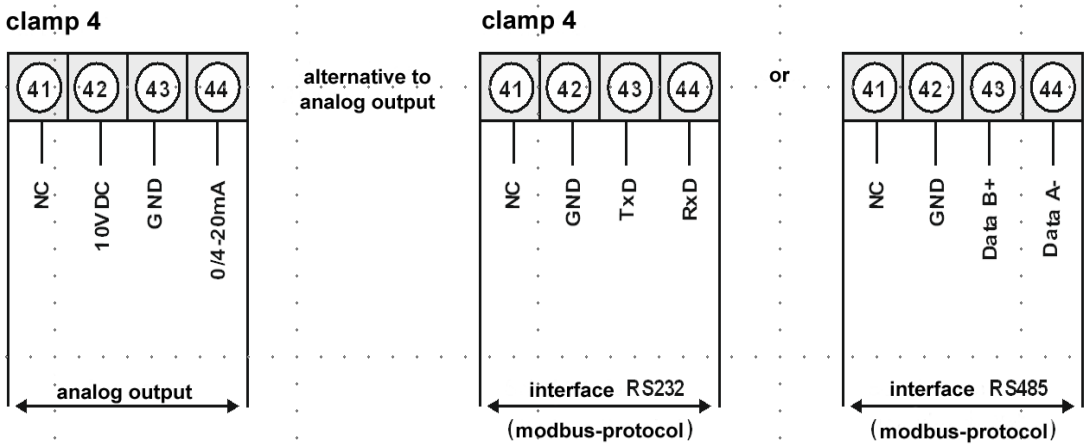
electrical connection UMU 500

terminal assignments







The complete user manual incl. further connection diagrams as well as the software can be found on our on the homepage.

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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

- The protective conductor connection must be connected in any case before the electrical connection is made. The protective conductor connection must not be interrupted. The protective conductor connection must also exist for mobile devices.
- All electrical work is to be carried out only in a de-energized state.
- 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

This short manual, the data sheets, a complete user manual and the software can be found 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.

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