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1. Scope and validity

The **Operator Manual** comprises the following documents:

- **Operator Manual Safety for Digital Indicators**
- **Data Sheet (optional indicators)**
- **Operating Instructions and Product Guide (standard indicators)**

Note	Read the whole Operator Manual before commissioning the product. Keep the whole Operator Manual.
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2. Safety

2.1. Technical data

The technical data of the product are stated in the **Data Sheet** or **Operating Instructions and Product Guide**.

2.2. Intended use

The product must only be used as stated under **Application** in the **Product Guide**.

2.3. Limitations of use

The product must only be operated under the stated **Environmental Conditions**.

The product must only be operated for the operating voltage/measurement category as stated in the following table:

Measurement range up to	Operating voltage	Measurement category
150 V DC	150 V	CAT III
300 V DC	300 V	CAT III
500 V AC (Ph-Ph)	300 V	CAT III

Respect the IP enclosure codes.

The current circuits must be protected by fuses for the maximum admissible currents.

2.4. Safety precautions


The product must only be installed and commissioned by a electrically skilled person with technical and general knowledge.

Relevant safety precautions, like e.g. electrical insulation and protective clothing, must be applied.





The product must not be used in the medical diagnostic range.


The product must not get to the hands of children, it must not come into contact with pets or plants, and it must be protected from insect infestation.

The product must only be transported or stored in the original packaging, thereby observe the **Environmental Conditions**. Check the product for damages after transport or storage.

Danger 	High electrical voltages Electric shock <ul style="list-style-type: none">◆ Disconnect all cables from power before connecting or modifying.◆ Discharge any capacitors before.◆ Check the powerless condition.
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Safety for Digital Indicators

<p>Danger</p> 	<p>For products with current measurement: Inductive voltages, secondary voltages of current transducers</p> <p>Electric shock</p> <ul style="list-style-type: none">◆ Disconnect safely devices capable for inducing inductive voltages.◆ Short-circuit secondary terminals of current transducers before connecting or modifying.
<p>Danger</p> 	<p>Product damaged, e.g. broken display filter</p> <p>Electric shock</p> <ul style="list-style-type: none">◆ Check the product for damages before installation and commissioning. Do not use the product in case of damages.◆ In case of damages, put the product out of operation immediately.
<p>Danger</p> 	<p>Operation of the product in explosion endangered areas</p> <p>Danger of explosions</p> <ul style="list-style-type: none">◆ Do not use the product in areas with explosive gases or explosive substances.
<p>Warning</p> 	<p>Product with wrong voltage or wrong current or wrong connection or wrong fuse</p> <p>Danger of fire due to overheating</p> <ul style="list-style-type: none">◆ Observe the relevant fire protection regulations.◆ Check the data on the type label before installation and commissioning.◆ Check for correct connection before commissioning.

<p>Caution</p> 	<p>Product with wrong voltage or wrong current or wrong connection Malfunction or permanent damages</p> <ul style="list-style-type: none"> ◆ Check the data on the type label before installation and commissioning. ◆ Observe the limits and tolerances. ◆ Check for correct connection before commissioning.
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Observe further safety notes in the **Operating Instructions**.

2.5. Symbols

The symbols on the device and in the **Operator Manual** have the following meanings:

- △ Safety note, observe operating instructions!
- Protective insulation

2.6. Cleaning

Clean the device using only a dry cloth. Do not use any solvents.

2.7. CE sign

The devices have a CE sign according to the regulations stated in EU declaration of conformity.

The EU declaration of conformity is available on request.

Specifications subject to change without notice; date of issue 06/2016 -