

OPTIFLUX 5000 SW
Electromagnetic flow sensor in sandwich version



Installation, assembly, start-up and maintenance may only be performed by appropriately trained personnel.



This instrument complies with requirements of Low Voltage Directive. Instruments must not be connected to power supply before reading instructions described in the manual.



This instrument complies with the requirements of Pressure Equipment Directive. Please refer to the nameplate for operating condition limits. Instruments must not be pressurised before reading instructions described in the manual.



The responsibility as to the suitability, intended use and corrosion resistance of the used materials against the measured fluid of this device rests solely with the operator.



For use in hazardous areas, special codes and regulations are applicable. Instruments must not be connected to power supply before reading instructions described in the supplementary manual.

Special conditions to be observed

- For ambient temperatures above 40°C/104°F, suitable heat resistant cable must be used in accordance with the instructions of the manufacturer.

When: $T_a \leq 40\text{ }^{\circ}\text{C}$ and process temperature $\geq 165\text{ }^{\circ}\text{C}$, or
 $40\text{ }^{\circ}\text{C} < T_a \leq 50\text{ }^{\circ}\text{C}$ and process temperature $\geq 130\text{ }^{\circ}\text{C}$, or
 $T_a > 50\text{ }^{\circ}\text{C}$ and process temperature $\geq 100\text{ }^{\circ}\text{C}$

- The field coils in type of explosion protection "m" must be protected by a 160 mA fuse with a breaking capacity in accordance with the prospective short circuit of the supply.
- Avoid the risk of ignition as a result of electrostatic charging. Do not use the device in areas, with processes that generate high charges, with mechanical friction and cutting process, near electrostatic painting systems (spraying of electrons), with exposure of airborne powder or dust particles (pressurized systems).

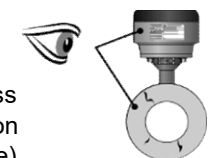
Ex ▶ Type Examination Certificate: KEMA 04 ATEX 2126 X

General



Maximum ambient and process temperatures are depending on version (e.g liner material, size), temperature and protection class and maximum surface temperature of sensor.

Check for damage



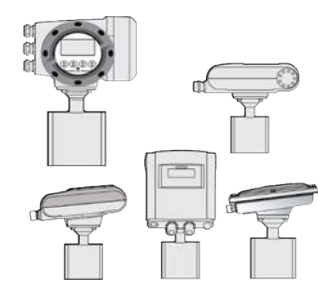
Check the device nameplate to ensure that the device is delivered according to your order.

Check the Ex data on nameplate in case of an Ex version (if applicable)

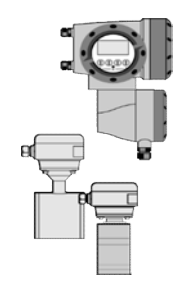
Device nameplate (example)

KROHNE Altometer, Dordrecht NL - 3313 LC 12	
OPTIFLUX 5000 SW	
S/N: Axxx xxxxx	
Manufactured: 20XX in the Netherlands	
GK = 2.714	GKL = 5.123
DN 150 mm / 6 inch	$f_{\text{field}} = f_{\text{line}} / 8$
Wetted materials CER	PS1=16 bar @ TS1<=80°C
IP 66 / 67 Pt	PS2=14 bar @ TS2=120°C
	PT = 24 bar @ TT = 20°C
Tag: xxxxxxxxxxxxxxxxxxxxxxxx	

Device version(s) (example)



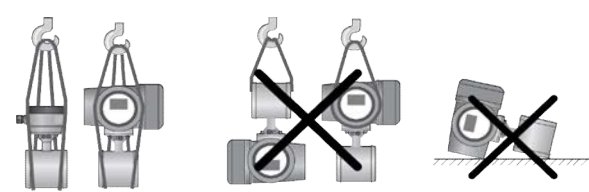
Compact version



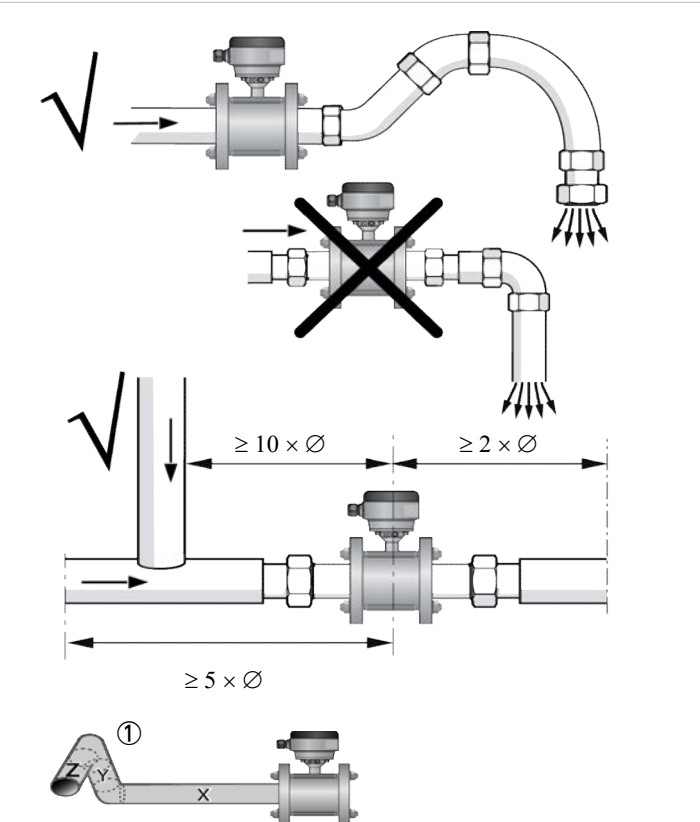
Remote version

Transport

- No special requirements
- Use the original packing of the device(s) when transporting to the installation location.



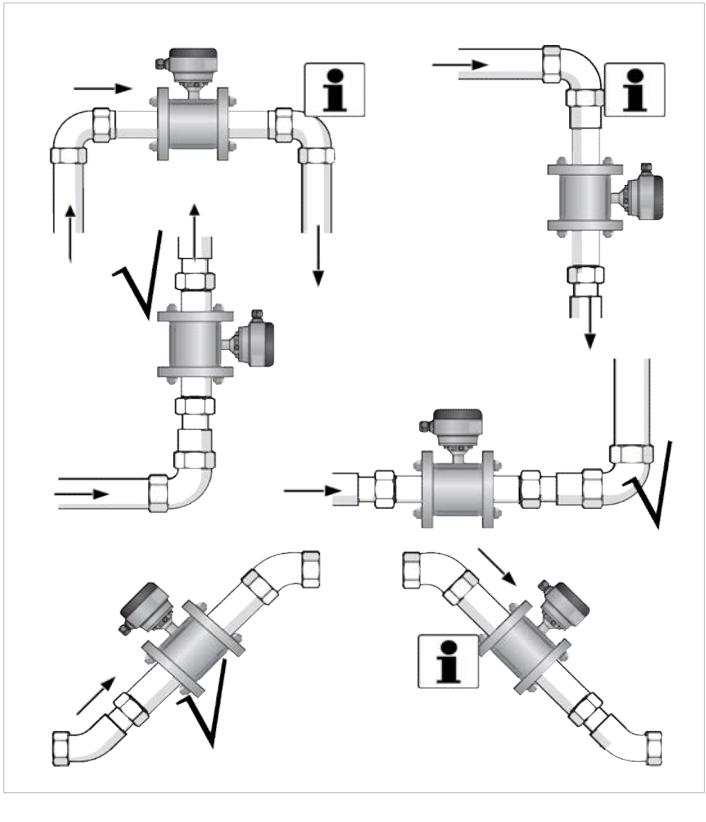
1 Installation

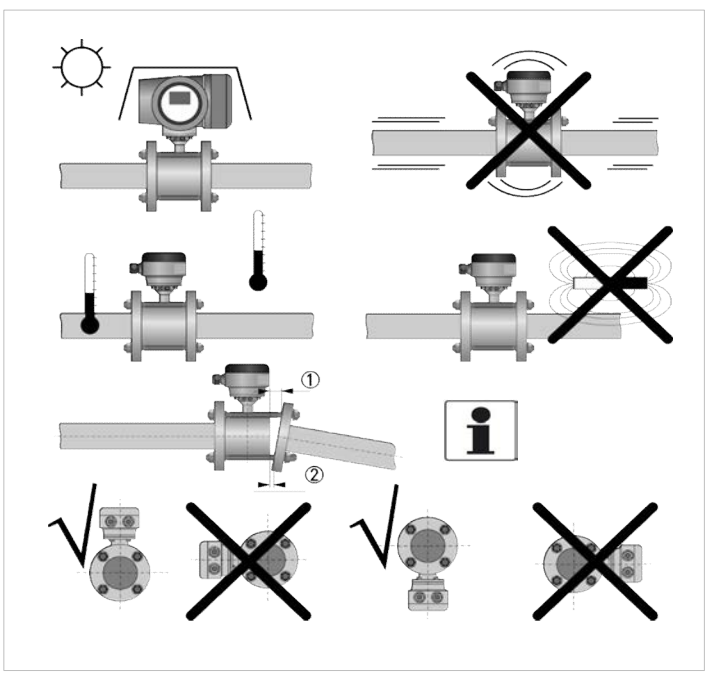


Depends on 2D/3D bends upstream

Inlet length:

- ① XYZ (3D bends upstream) = 10 DN
- ② XY (2D bends upstream) = 5 DN







Check the manual for more details on installation options.

2 Electrical connection

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All work on the electrical connections may only be carried out with the power disconnected. Take note of the voltage data on the nameplate! Observe the national regulations for electrical installations!
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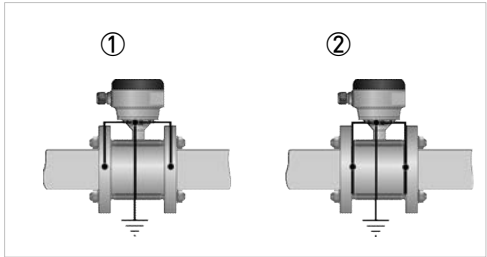
For devices used in hazardous areas, additional safety notes apply; please refer to the Ex documentation. Refer to the manual for connection of Ex (i) acc. to NAMUR
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Observe without fail the local occupational health and safety regulations. Any work done on the electrical components of the measuring device may only be carried out by properly trained specialists.

Grounding

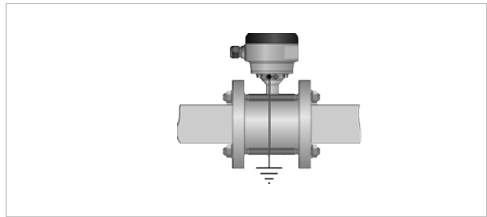
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The device must be grounded in accordance with regulations in order to protect personnel against electric shocks.



- ① Metal pipelines, without a lining. Ground the device without grounding rings!
- ② Metal pipelines with a lining and non-conductive pipelines. Ground the device with grounding rings!

Virtual reference



Minimum requirements

- Nominal diameter: $\geq$ DN10 / $\frac{3}{8}$ "
 - Electrical conductivity: $\geq$ 200 μ S/cm
 - Electrode cable, type DS: max. 50 m / 164 ft
- Only for IFC 300/ IFC 400 signal converter

3 Quick Setup

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For the start up and menu description please refer to the manual of the applicable signal converter. For the connection diagrams please refer to the applicable manual

Download documents/software

Scan the code on the nameplate or scan the following code and enter the serial number.



Contact

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www.krohne.com