





### IFC 100 Signal converter for electromagnetic flowmeters

-  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.
-  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 and process temperatures, specific product and electrical data, see Ex manual or certificate.
- The field coil circuit must be connected to a passive load only.

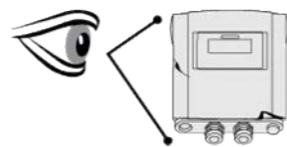
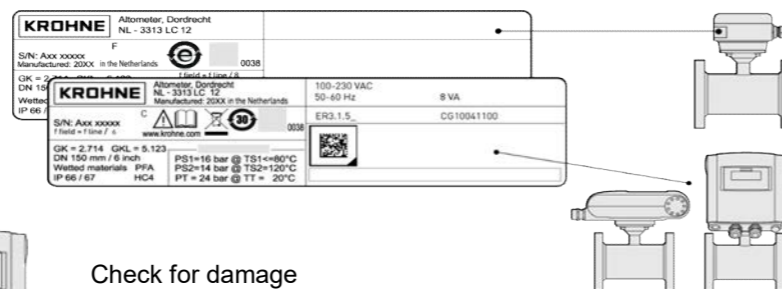
Ex ▶ Type Examination Certificate: FTZU\_15 ATEX 0036 X / IECEx FTZU 15.0010 X

#### General

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

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

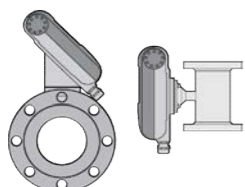
#### Device nameplate (example)



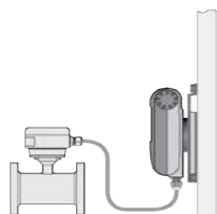
Check for damage

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

#### Device version(s)



Compact version



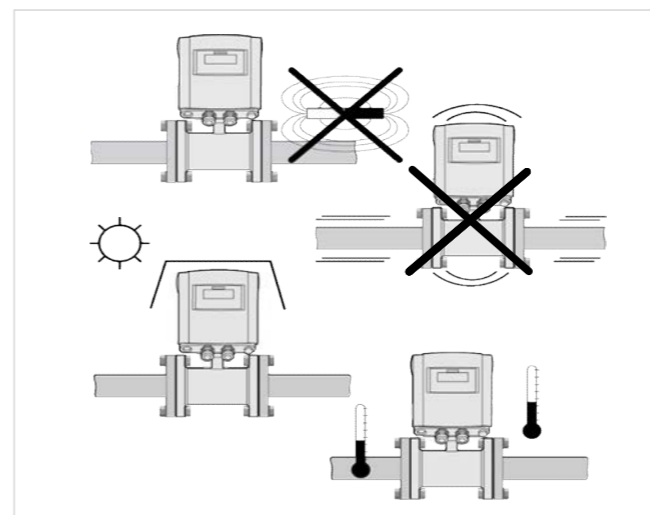
Remote version

#### Transport

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

## 1 Installation

### General installation requirements




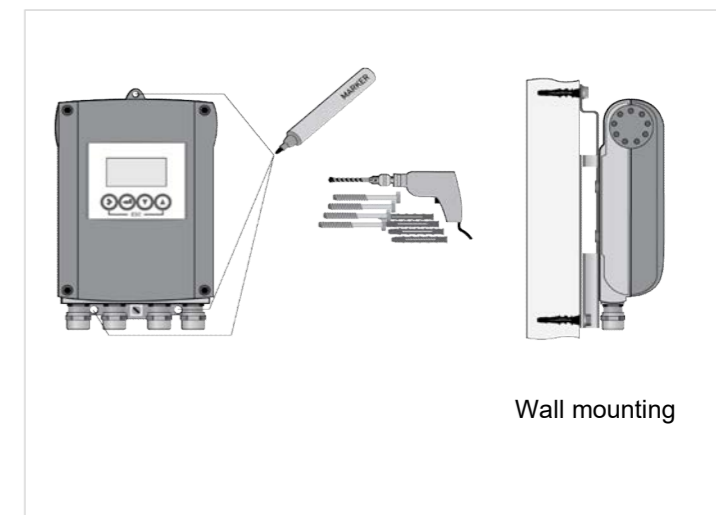
Avoid vibration / Electromagnetic fields

Use sunshade / Check medium and ambient temperature specifications



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).

Refer to the documentation of the flow sensor for specific installation conditions. 



Wall mounting

Mounting the field housing, remote version

## 2 Electrical connection



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!

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



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.



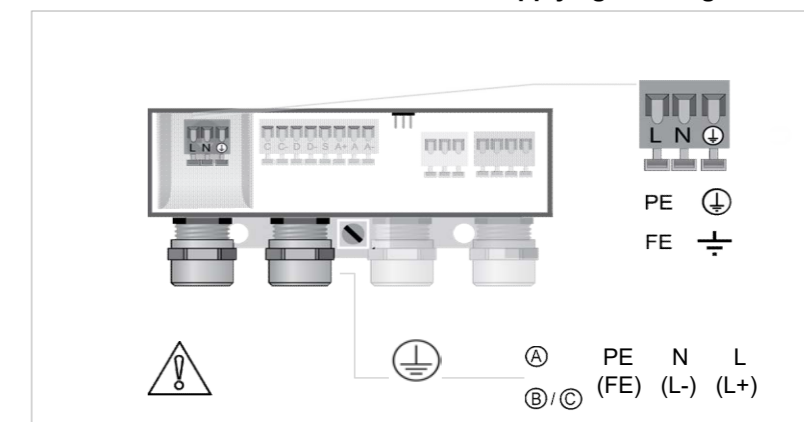
Refer to the manual for more details on connection options and preparing the signal and field current cable.

### Electrical connections signal converter

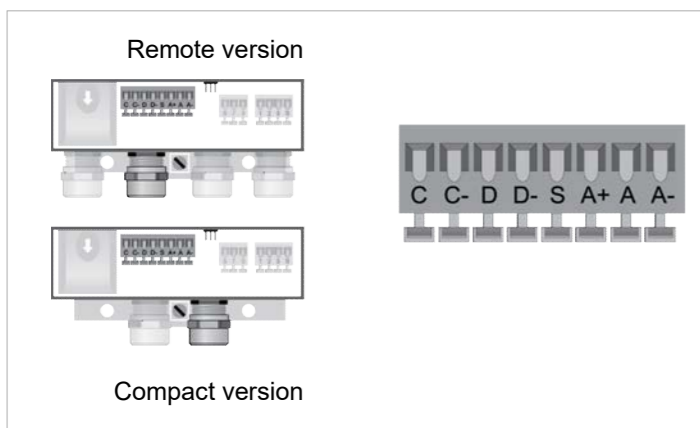


- (A) 100...230 VAC (-15% / +10%), 7 VA
- (B) 24 VDC (-55% / +30%), 4W
- (C) 24 VAC/DC (AC: -15% / +10%; DC: -25% / +30%) 7 VA or 4 W

### Power supply - grounding



## I/O connections

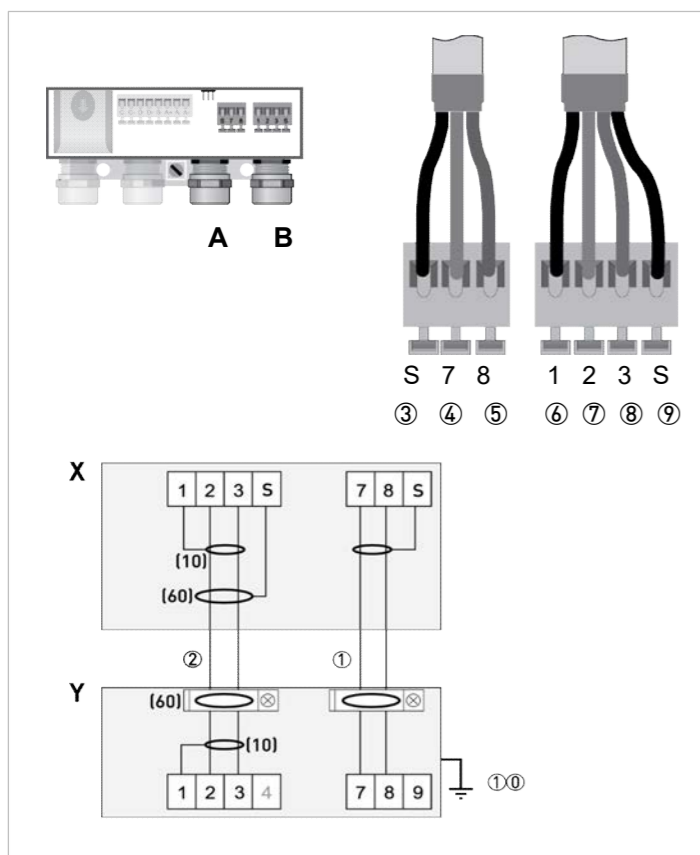


S	Shield connection terminal
A, C, D	I/O positive terminal (+)
A+	I/O positive terminal (+)
A-, C-, D-	I/O negative terminal (-)
A	Current output
D	Status output
D	Frequency / pulse output
C	Control input

Observe connection polarity

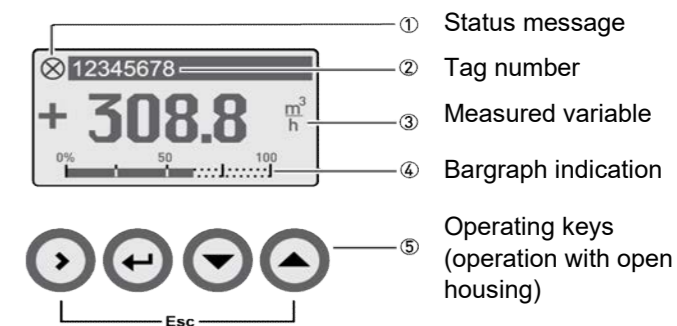
Refer to the manual for more details on connection options / Connection diagram

## Sensor cable connections



① / A	Field current cable
② / B	Signal cable A (DS 300)
③	Shield connection terminal (S)
④	Electrical conductor (7)
⑤	Electrical conductor (8)
⑥	Inner shield of signal cable (1)
⑦	Electrical conductor (2)
⑧	Electrical conductor (2)
⑨	Shield connection terminal (S)
⑩	Functional ground (FE)
X	Signal converter terminal compartment
Y	Flow sensor connection box

## 3 Quick Setup



Measuring mode	Select menu	Select Submenu	Functions
Press > 2.5 s	↑ ↓	↑ ↓	↑ ↓ >
A	A1 language		
quick setup	A2 Tag		
	A3 reset	A3.1 reset errors	
		A3.2 counter 1	
		A3.3 counter 2	
	A4 analogue outputs	A4.1 measurement	
		A4.2 unit	
		A4.3 range	
		A4.4 low flow cutoff	
		A4.5 time constant	
	A5 digital outputs	A5.1 measurement	
		A5.2 pulse value unit	
		A5.3 value p. pulse	
		A5.4 low flow cutoff	
	A7 process input	A7.1 device serial no.	
		A7.2 zero calibration	
		A7.3 size	
		A7.5 GKL	
		A7.6 coil resistance Rsp	
		A7.7 calib. coil temp.	
		A7.8 target conduct	
		A7.9 EF electr. factor	
		A7.10 field frequency	
		A7.11 flow direction	

### Download documents/software

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



## Contact

Select your country from the region / language selector to view your local KROHNE contact details on:

[www.krohne.com](http://www.krohne.com)