

Quick Start

For initial set up, we strongly recommend that you also refer to the relevant manual!

Pipe mounting

IFC 300

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.
- For dimensions and details of the flameproof joints, the manufacturer shall be contacted.
- The tensile strength of the special fasteners is at least 700 N/mm² (property class A2-70 / A4-70).

Ex ▶ Type Examination Certificate: FTZU 12 ATEX 0198 X / IECEx FTZU 12.0023 X

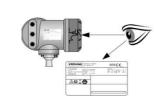
General



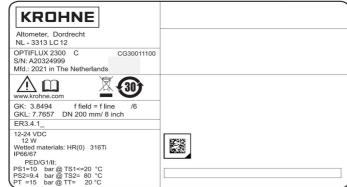
Check the device nameplate to ensure that the device is delivered according to your order.

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





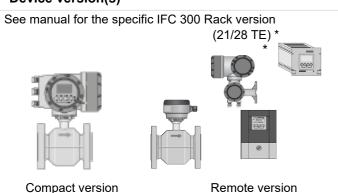
Device nameplate (example)



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

Transport

Device version(s)

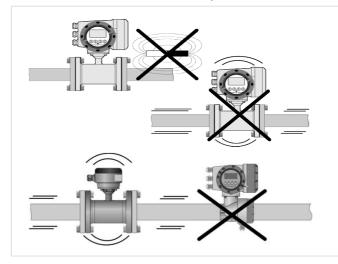


- No special requirements

- Use the original packing of the device(s) when transporting to the installation location.

1 Installation

General installation requirements



Refer to the documentation of the flow sensor for

specific installation conditions.

Avoid vibration / Electromagnetic fields

Mounting the field housing, remote version

Wall mounting



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).

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.



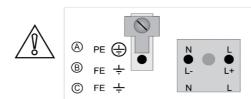
Observe without fail the local occupational health and safety regulations. Any work done on the electrical components of the measuring device may only be carried out by properly trained specialists.

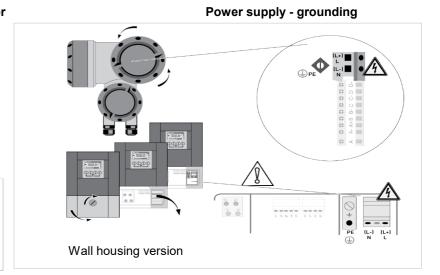


Refer to the manual for more details on connection options and preparing the signal and field current cable.

Electrical connections signal converter

- (A) 100...230 VAC (-15% / +10%), 22 VA
- B 12...24 VDC (-55% / +30%) 12 W
- © 24 VAC/DC (AC: -15% / +10%; DC: -25% / +30%) 22 VA or 12 W

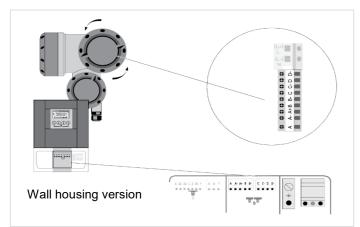




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I/O connections



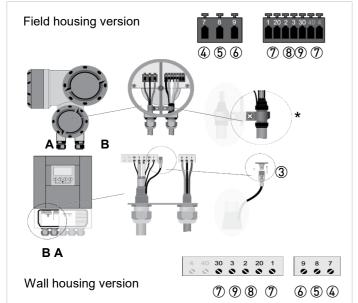


Refer to the manual for more details on connection options

S Shield connection terminal A, B, C, D A+, B+ A-, B-, C-, D I/O negative terminal (-)

POWER	PE (FE) L(L+) N(L-)	_(i	3x xxxxxxx S/N: XXX xxxxxx KROHNE Active P = Passive NC = Not connected
INPUT / OUTPUT	D - D	Р	PULSE OUT / STATUS OUT Imax = 100 mA@f<= 10 Hz; = 20 mA@f<=12 kHz Vo = 1.5 V @ 10 mA; Umax = 32 VDC
	C -	Р	STATUS OUT Imax = 100 mA; Vmax = 32 VDC
	B - B	Р	STATUS OUT / CONTROL IN Imax = 100 mA Von > 19 VDC, Voff < 2.5 VDC; Vmax = 32 VDC
	A + A - A	A P	CURRENT OUT (HART) Active (Terminals A & A+); RLmax = 1 kohm Passive (Terminals A & A-); Vmax = 32 VDC

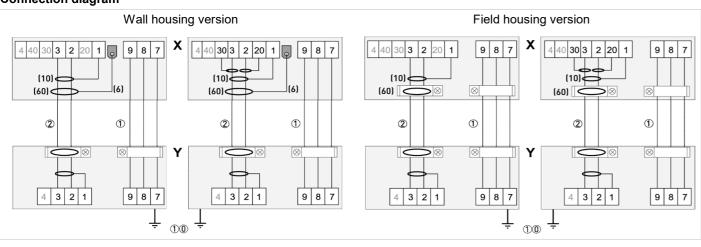
Sensor cable connections



① / A	Field current cable		
② / B	Signal cable A (DS 300) /		
27 6	Signal cable B (BTS 300)		
3	Shield connection terminal (S)		
4	Electrical conductor (7)		
(5)	Electrical conductor (8)		
6	Electrical conductor (9)		
7	Stranded drain wires (1 - 20 - 30)		
8	Electrical conductor (2)		
9	Electrical conductor (3)		
10	Functional ground (FE)		
Х	Signal converter terminal compartment		
Υ	Flow sensor connection box		
*	Clamp connect outer shield to the housing		

Do not connect the outer shielding of the field current cable!

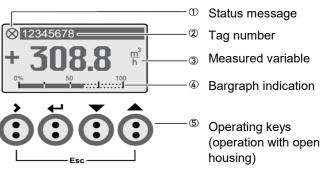
Connection diagram

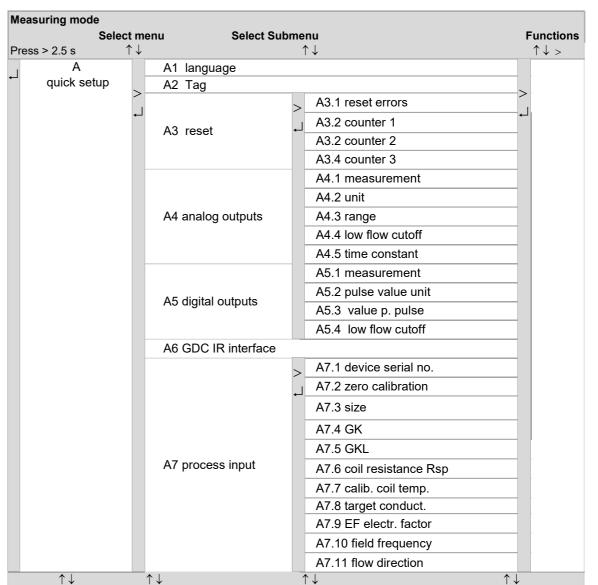


3 Quick Setup









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