

OPTISONIC 6300 P

Portable ultrasonic clamp-on flowmeter for liquids

-  Installation, assembly, start-up and maintenance may only be performed by appropriately trained personnel. Check the nameplate for correct operating conditions.
-  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.

 This device cannot be used in Hazardous Locations or Explosive Gas Atmospheres!

General

 $T_a = -10...+45^{\circ}\text{C} / +14...+113^{\circ}\text{F}$
 $T_p = -40...+120^{\circ}\text{C} / -40...+248^{\circ}\text{F}$

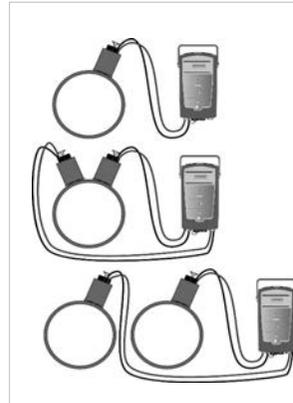
Maximum ambient and process temperatures are depending on version (e.g liner material, size), temperature and protection class and maximum surface temperature of sensor.



Diameter range and rail versions

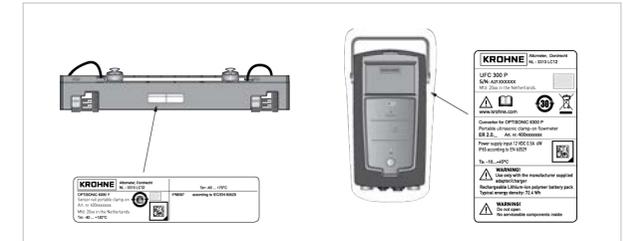
	1 rail		2 rails		
W-mode					V-mode
V-mode					Z-mode
Small	DN15...50 / 0.5...2"		Medium	DN200...2000 / 8...80"	
Medium	DN50...250 / 2...10"		Large	DN200...4000 / 8...160"	

General



System Configuration

Device nameplate



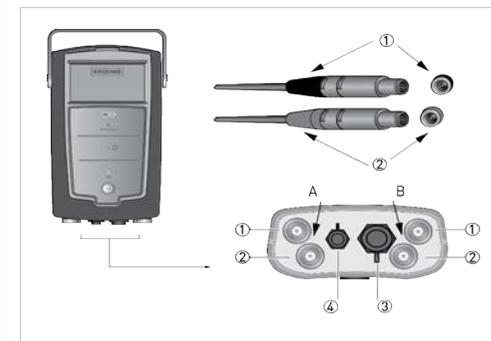
Check the device nameplate to ensure that the device is delivered according to your order.



1 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!
-  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.
-  Charge the battery of the signal converter completely before using.

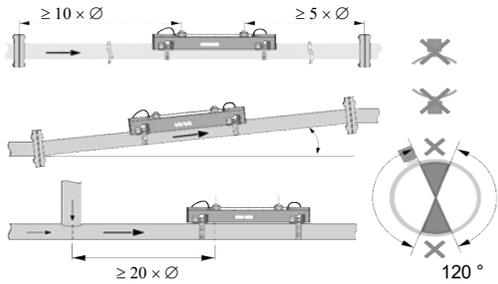
Electrical connections signal converter



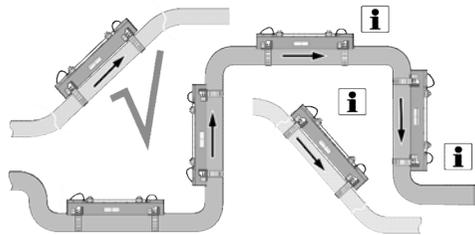
12V DC Power adaptor (charger), mains supply data:
 100...240 VAC (Vnom), 50...60 Hz
 12 VDC, 2.33 A, Pmax 28 W

- A - B Channel (A-B) 1 / 2 path measurement
- ① ② Sensor cable connections
- ③ I/O connections
- ④ Mains supply connection

2 Installation



Installation position

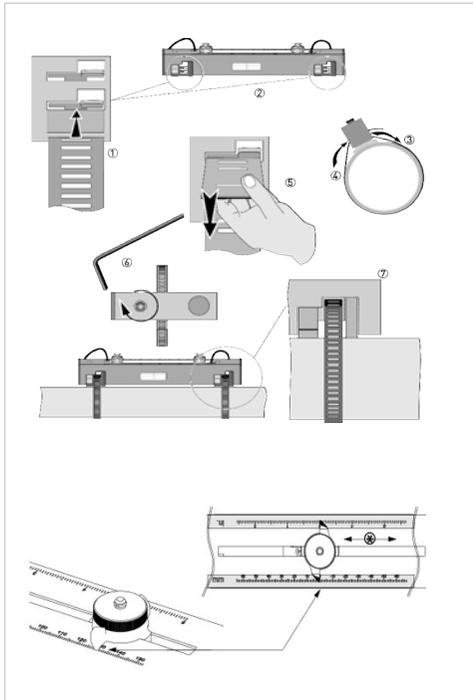


Pump, control valve - open feed / discharge



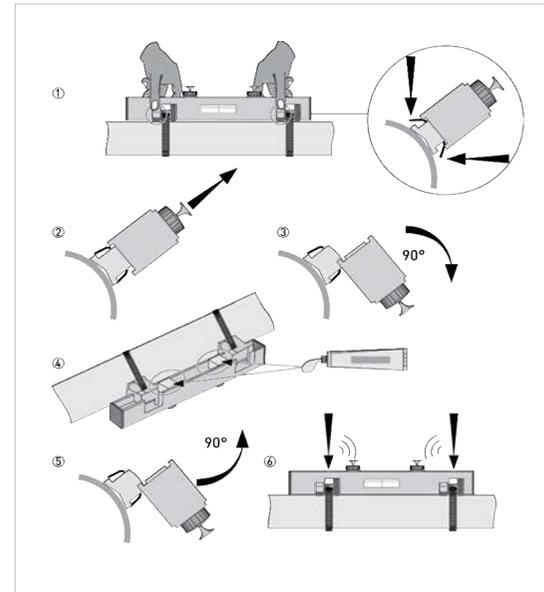
i Check the manual for more details on installation options

General installation of the rails

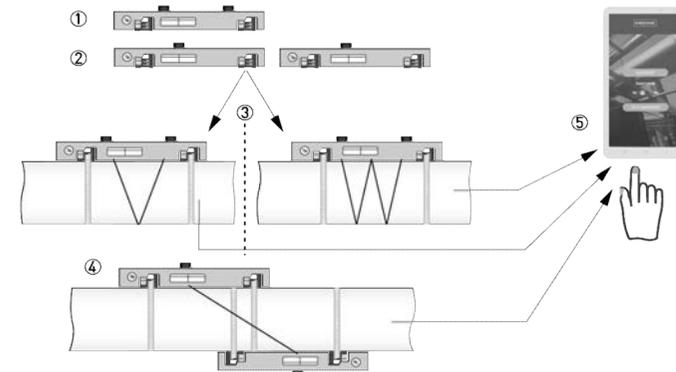


Change the position of the transducer

Greasing the transducer surfaces



i Check the manual for more details on installation options (e.g. Large version installation)



- ① ② Choose sensor size
- ③ ④ Choose the applicable measuring mode
- ⑤ Complete the settings using the Installation wizard.

3 Quick Setup

i Charge the battery of the signal converter before first use and download and install the mobile application that is necessary to configure your measuring application.

After downloading the application, make sure to adjust and set the following parameters on your mobile device:

- go to "Settings" / Wireless and networking / Tethering
- switch on Bluetooth Tethering
- set mobile connections to "Bluetooth"

Press the "On/Off button of the UFC 300 P converter for approximately 3 seconds to initialise the converter and establish connection with your device.



- ① Charging indication and battery status
- ② Indication of data exchange and connection
- ③ On/Off button and status LED

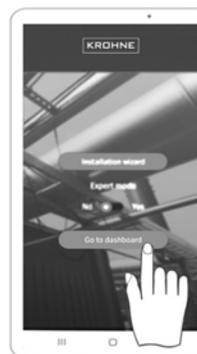
i In case Bluetooth operation is not used, you can choose for the wired USB connection. Connect the I/O cable with USB to the Android mobile or tablet to maintain communication.



Download and install the mobile application on your device.



- choose "Installation wizard" and follow up with the specific data in each screen



- choose "Go to dashboard" to select logging features or a previous saved log-file



- select "Measurements" to set or display measurement

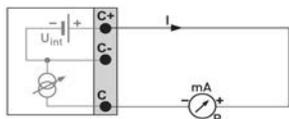


- For more information and options go to "Dashboard"

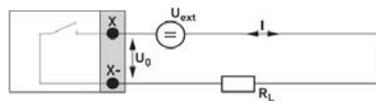
Connection diagram



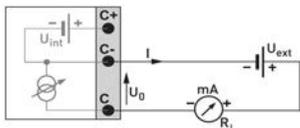
Observe connection polarity



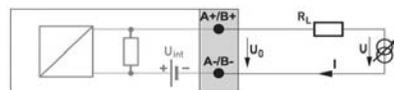
Current output active Ia (basic I/O)



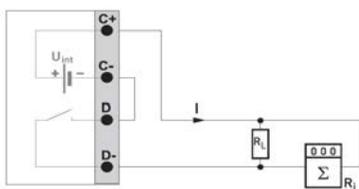
Status output/limit switch passive Sp (basic I/O)



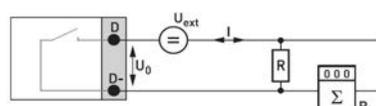
Current output passive Ip (basic I/O)



Current input active IIa



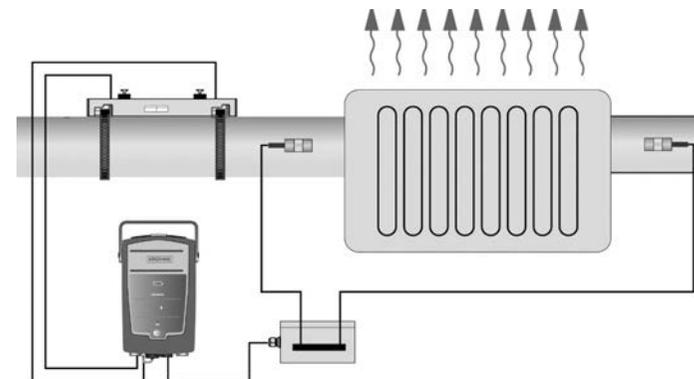
Pulse/frequency output active Pa (modular I/O)



Pulse/frequency output passive Pp (basic I/O)

Screw terminal pin	Standard I/O box	I/O box with heat energy option
1	Frequency / pulse output D	Frequency / pulse output D
2	Frequency / pulse output D-	Frequency / pulse output D-
3	Status output X	Status output X
4	Status output X-	Status output X-
5	Current output C+	Current output C+
6	Current output C	Current output C
7	Current output C-	Current output C-
8	Current input A+	Temperature sensor 1
9	Current input A-	
10	Current input B+	
11	Current input B-	Temperature sensor 2
12	Not connected	
13	Not connected	
14	Not connected	
15	Not connected	

Installation for energy measurement



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