DUC-MP *Quickstart*

A

User Interface:

Switch on / off. For switching off please press button for approx. 5 sec.

Activates the background lighting

To navigate through the different menus please use the keys located on the left and right beside the display.


Move cursor in specific direction

Confirm your settings

Confirm your settings and moves to next menu

Back to previous menu


Increase of values


Decrease of values

Activates a certain function (depending on chosen menu)


No function

B

Set-up your flow measurement in 5 steps

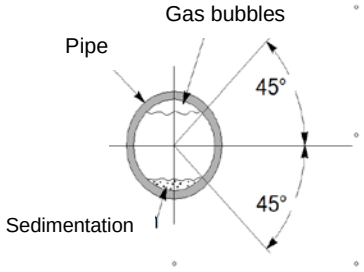
1. **Choose suited mounting position for your transducers**
2. **Parameterize your flow transmitter**
3. **Mounting of ultrasonic transducers on your pipe**
4. **Set zero point (if possible)**
5. **Start your flow measurement**

Pipe needs to be filled completely for clamp-on measurement

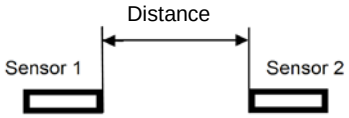
C

Parameterization and mounting

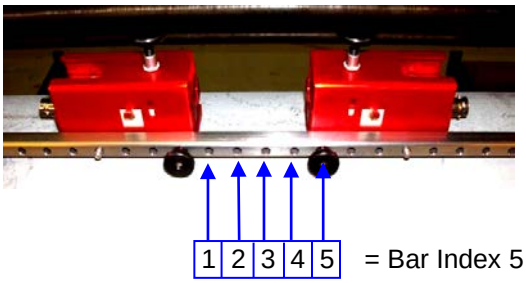
1. Switch on flow transmitter
2. QUICK SETUP : Choose menu „quick setup“
3. Select diameter or circumference (depending on what figure you have) of your pipe
4. Insert value for diameter or circumference
5. Insert value for wall thickness of your pipe
6. Select pipe material
7. Select lining (if there is a lining)
8. Select type of ultrasonic transducer
   - → DUC-WP 40 DN15…DN100
   - → DUC-WP10 DN32… DN400
   - → DUC-WP05 DN200 DN6000
9. Select method of mounting. Standard is V-mounting.
10. Now the display is showing the required distance between the two transducers in mm and also as Index-No. Index-No. shows the distance (in “holes”) when using the spacer bar. When using horizontal pipe, we recommend mounting the transducers at 10 o’clock or 2 o’clock position to avoid any influence of gas bubbles that might accumulate on top of pipe. Straight run should be 10x diameter (inlet) and 3x diameter (outlet) in order to achieve best accuracy.



Mounting without spacer bar:
Please use the distance given in mm. Distance is calculated from inner fronts of the 2 transducers



Mounting with spacer bar:
After parameterization the display is showing the required distance between the two transducers in mm and also as Index-No. Index-No. means the number of holes to be used for mounting with the spacer bar. The first hole **after the first transducers** is hole No. 1, the last hole is the hole where second transducer is put into the spacer bar (threaded bar with milled screws). See picture for example.



Fix transducers
Please always give some coupling grease on surface of transducers before mounting. Please loosen milled screw. Please fix transducers with chains (only little contact pressure). Then screw the transducers towards pipe by using milled screw. Also, only little contact pressure is required.

The displayed bar index is only valid in combination with the correct space bar type (long or short)

11. Set Zero Point (if possible)
→ If there is the chance to stop flow please do it and then select „Zero Setup“ and set zero point. ZERO SETUP
12. Go back to main menu and select button „MEAS“. You then entering the measuring menu where you see the calculated flow, velocity,…. MESS.

Change units:
->Go to main menu and select SETUP - > COMPL SETUP. Then select „UNITS SETUP“ to change units.

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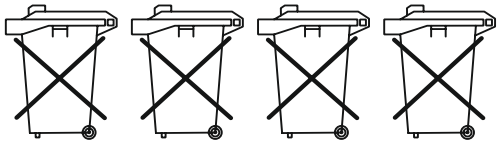
Disposal

Note!

- Avoid environmental damage caused by media-contaminated parts
- Dispose of the device and packaging in an environmentally friendly manner
- Comply with applicable national and international disposal regulations and environmental regulations.

Batteries

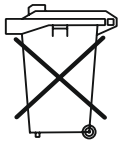
Batteries containing pollutants are marked with a sign consisting of a crossed-out garbage can and the chemical symbol (Cd, Hg, Li or Pb) of the heavy metal that is decisive for the classification as containing pollutants:



Cd[1] Hg[2] Pb[3] Li[4]

1. „Cd" stands for cadmium
2. „Hg" stands for mercury
3. „Pb" stands for lead
4. „Li" stands for lithium

Electrical and electronic equipment



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