Technical Information

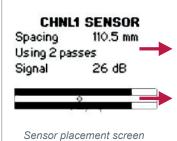
Audible Sensor Positioning Assistant™



Introduction

- Every KATflow ultrasonic clamp-on flowmeters is equipped with the *Audible Sensor Positioning Assistant*, an unique product innovation which makes correct sensor installation simple and quick.
- This assistant indicates the correct position of the sensors during the installation on the pipe using acoustic signals and graphic instructions. This technology, in combination with the intuitive instrument Setup Wizard, enables even inexperienced users to install the sensors and carry out measurements within a matter of minutes.

Sensor Placement Screen



The flowmeter recommends the ideal sensor spacing. This is the distance from the inside edge of each sensor.

Graphic instruction bars of the Sensor Positioning Assisitant. Upper bar: Signal-to-noise ratio Lower bar: Signal quality

By carefully moving

sensors on the pipe, the line

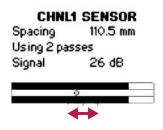
between the bars should

moved above the middle line

underneath the lower bar. The correct sensor position has been achieved once the cursor is in the centre of the

the

- The upper bar indicates the signal-to-noise ratio. The more the bar is filled out towards the right, the higher is the content of usable signal.
- The lower bar indicates the quality of the received signal. It there-fore gives information about how well the signal can be used to carry out measurements.
- Ideally, both bars should be the same length and as far to the right as possible. This guarantees a high content of usable and high quality signal.



Adjustment of sensor position

• A correct signal-to-noise ratio and quality are achieved when both signal bars are the same length.

screen.

- When using the Audible Sensor Positioning Assistant remember the basic rule:
 - Cursor to the left sensors too close together
 - Cursor to the right sensors too far apart.

Features

Finding the correct distance between the sensors is now made even easier:

- KATflow flowmeters have an additional tool to aid for sensor positioning. During sensor alignment it guides the user with an acoustic signal.
- This signal is a fast repeating beeping sound when the sensors are incorrectly positioned. The signal frequency slows the nearer the user comes to achieving the correct sensor alignment. The beeping stops once ideal sensor position is attained.



Sensor mounting with chains and clips

The Audible Sensor Positioning Assistant is a unique feature of the KATflow products and is available on all flowmeter models. This makes commissioning quick and straightforward even on flowmeters for permanent installation such as the KATflow 150.



KATflow in operation

U-F-M | www.u-f-m.nl

© U-F-M B.V. | Issue: TI_ASPA_V01EN_1706

While the greatest care has been devoted to the content, it is possible that the information in this printed matter is incorrect or incomplete. U-F-M B.V. (hereafter: U-F-M) cannot be held liable in any way for the consequences of activities undertaken on the basis of this printed matter. If you have any doubts about the correctness or completeness of the information, please contact U-F-M (T +31 (0)165 - 855 655). Nothing from this printed matter can be copied and/or made public in any way without the explicit authorisation of U-F-M.