

Nivå och Flödesutrustning

(IS210 Clamp-on Ultrasonic Flow Meters)

Product Description

IS210 transit time flow meter utilizes two transducers that function as both ultrasonic transmitters and receivers. The transducers are clamped on the outside of a closed pipe at a specific distance from each other. When the flow meter works, the two transducers transmits and receives ultrasonic signals amplified by multi beam which travels firstly downstream and then upstream. Because ultra sound travels faster downstream than upstream, there will be a difference of time of flight. When the flow is still, the time difference is zero. Therefore, as long as know the time of flight both downstream and upstream, we can work out the time difference, and then the flow velocity (V) and flow volume (Q) can be calculated.

Intra-Automation offers Ultrasonic Flow Meters of different versions:

IS210-S: Version for fixed installation

- ◆ Non-invasive clamp-on transducers
- ◆ Bi-directional flow metering possible
- ◆ Positive, negative and cumulating flow metering possible
- ◆ Ex-Version available
- ◆ Pipe sizes: 12...4570 mm
- ◆ Temperature range: -40...+250 °C
- ◆ Up to 8 GB Meas. value memory possible (SD-card)
- ◆ Simple use and fast installation

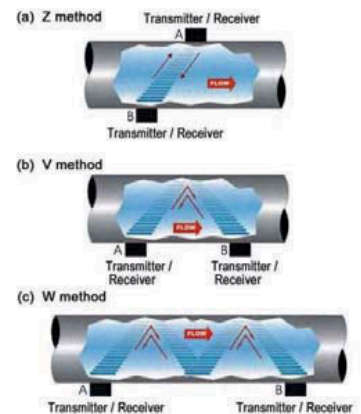
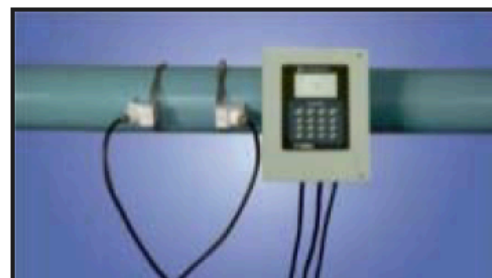


Figure 1



IS210-P: Portable version

- ◆ Advanced DSP and Multipuls-Technology
- ◆ 40-hours-Battery (rechargeable)
- ◆ Backlit 4-line display integrated into a rugged, water tight housing
- ◆ Cost-effective and versatile applicable
- ◆ Supports SD-Card-Memory. (Capacity up to 8 GB)
- ◆ Works reliably with clean and low contaminated fluids.
- ◆ Light-weight and easy to handle housing.
- ◆ 4...20 mA, OCT Impulse (Flow velocity or total flow)-output as standard-output
- ◆ Optional heat flow BTU-function, two temperature-transmitters 4...20 mA for up- und downstream-temperature indication and thermal flow-, total thermal flow indication.



Level and Flow Measuring Management

