



Datasheet QP015-UDP-PI

Ultrasonic Density Probe for light slurries

Principle

Ultrasonic spectroscopy

Description

Model UDP-PI is designed to measure acoustical physical properties of light abrasive slurries in mining, drilling, dredging fluids and sludge. The probe has good chemical resistance and can measure density of a large variety of chemicals.



The Arenal QP015-UPD-PI ultrasonic probes are fit to be applied in low to medium density abrasive slurries with flows up to 5 m/s.

The sensor measuring surface is made of PI which provide a great combination of wear resistance while still maintaining perfect acoustic properties for the low to medium density measurements. The measuring surface is protected by one of the toughest materials on earth: Sintered Silicon Carbide (SSiC). SSiC is much more wear resistant compared to all other ceramics and metals.

Features

- The probe does not erode, it is wear resistant against light abrasive slurries and has good chemical resistance
- Stable and highly accurate measurement up to 0,5 g/l accuracy
- Suits slurries, sludge and some chemicals
- For low temperature applications

Engineering specifications

Make: Arenal PCS BV, The Netherlands

Advanced Ultrasonic Density Probe for low density or non-abrasive slurries

Material wetted parts (sensor tip): Polyimide (Vespel®) protected by Sintered Silicon Carbide housing

Suits density between 600-1600 g/l (other ranges possible)

Material housing: SSiC and SS316

Temperature range 0-40 degC

Fixing thread: M32x1,5

Connection cable: 350 mm (standard) up to 5 meter

Dimensional drawing

