



Datasheet QP015-UDP

Ultrasonic Density Probe

Principle

Ceramic ultrasonic spectroscopy

Description

Model UDP is designed to measure acoustical physical properties of abrasive slurries in mining, drilling and dredging fluids.



The Arenal ultrasonic probes are fit to be applied in high density and abrasive slurries with flows up to 7 m/s.

The ceramic sensor is made from one of the toughest materials on earth: Sintered Silicon Carbide (SSiC). They are much more wear resistant compared to all other ceramics. Secondly the acoustical and physical properties of SSiC are perfect for the applications in abrasive slurry density monitoring.

Features

- The probe does not erode, it is wear resistant against highest abrasive slurries
- Stable and accurate measurement up to 3 g/l accuracy
- Suits slurries and pastes
- For low and medium temperature slurries

Engineering specifications

Make: Arenal PCS BV, The Netherlands
Advanced Ultrasonic Density Probe for high density abrasive slurries
Material wetted parts (sensor tip): Sintered Silicon Carbide
Suits density between 0-4500 g/l
Material housing: SS316
Temperature range 0-55 degC or 60-110 degC
Fixing thread: M32x1,5
Connection cable: 350 mm

New!

This sensor replaces the QP014-UDP-WFC sensor
Arenal currently develops new ceramic sensors for lower abrasive slurries with lower densities than 1300 g/l with much higher precision.

Dimensional drawing

