



Datasheet QP013-UDP

Ultrasonic Density Probe for submersible applications

Principle

Ultrasonic spectroscopy

Description

Model QP013 is designed to measure acoustical physical properties (APP's) of slurries, sludge and chemicals in all industries.

These APP's are directly related to the physical properties of the medium, like the density of the slurries, the amount of dissolved solids and the amount of suspended solids.

The housing is made from SS316, while the ultrasonic sensor is made from quartz, PEEK or Silicon Carbide. It is wear resistant, can handle low to high densities, and high dissolved and suspended solids concentrations. Also, the acoustical, physical and chemical resistance properties of our sensor materials are perfect for the applications in abrasive density monitoring and many (petro)chemicals.



Features

- The probe does not erode, it is wear resistant
- Stable measurement
- Suits slurries and sludge
- For low and medium temperature slurries

Specification

- Quartz sensing element
- SS316 housing
- Fixed coaxial cable connection with FEP jacket
- Suits density up to 2500 g/l
- Suits temperatures up to 130°C



Connectivity

- Coaxial cable with LEMO 1V connector

Mounting

- Thread 1-1/4"

Engineering specifications

Make: Arenal PCS BV, The Netherlands
Advanced Ultrasonic Probe for abrasive slurries and sludge
Material sensor: Quartz, PEEK or SSiC
Material housing: SS316
Temperature range 0-55 or 0-130 °C
Fixing thread: 1-1/4"

Product variations

QP013-UDP-CPT

Model CPT is only used in Cone Penetration Tests in geotechnical surveys

QP013-UDP-DIV

Model DIV is only used in submersible applications in settling tanks

QP013-UDP-DIVR

Model DIV is used in submersible applications in tanks with dissolved and/or suspended solids

QP013-UDP-OCP

Model OCP is used in submersible applications in open channels in mining operations to determine slurry density

QP013-UDP-SUB

Model SUB is used in submersible applications in river and lake water monitoring applications, to determine low variations of concentration of contaminations

Dimensional drawing

