



Datasheet QP018-UDP-CMP Ultrasonic Density & Concentration Probe

Principle	Ultrasonic Spectroscopy
Description	Model CMP is designed to be installed in process lines to measure the acoustical physical properties (APP's) of chemicals, emulsions and slurries. These APP's could be density, speed of sound, attenuation and temperature. In the QA04 analyzer, the physical APP's are related to dissolved and suspended solids concentration at sub-ppm accuracy.
	The Arenal ultrasonic probes are fit to be applied in 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 most demanding chemical applications. The standard sensing element is quartz glass, one of the most chemical resistant materials on earth as well and perfect acoustical properties.
Features	 The probe does not erode, it is chemical and wear resistant Very stable measurement Suits all (mixed) chemicals in any concentration For low and medium temperature slurries
Specification	 Quartz sensing element in ceramic (SSiC) housing Tefzel double o-rings Coaxial cable connection Suits density from 0 up to 3000 g/l Suits temperatures up to 130 degC
Connectivity	Coaxial cable or LEMO 1V connector
Mounting	• Flanged on the SSiC housing in 3" flange
Engineering specifications	Make: Arenal PCS BV, The Netherlands Advanced Ultrasonic Probe for (aggressive) chemicals Material sensor: Quartz and Sintered Silicon Carbide Material housing: SSiC Temperature range 0-55 degC or 0-130 degC Fixing: 3″ flange

Product variationsQP018-UDP-CMP-MT-SIC-QTZ-D40-L150
Model for inline applications in demanding chemical processes.
> Composite materials, ceramic and quartz
> The sensor is mounted on a 3" flange.
> Mounting is from inside to outside the pipe
> Fixed LEMO 1V connectorDimensionsLength = 147 mm, d=40 mm



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