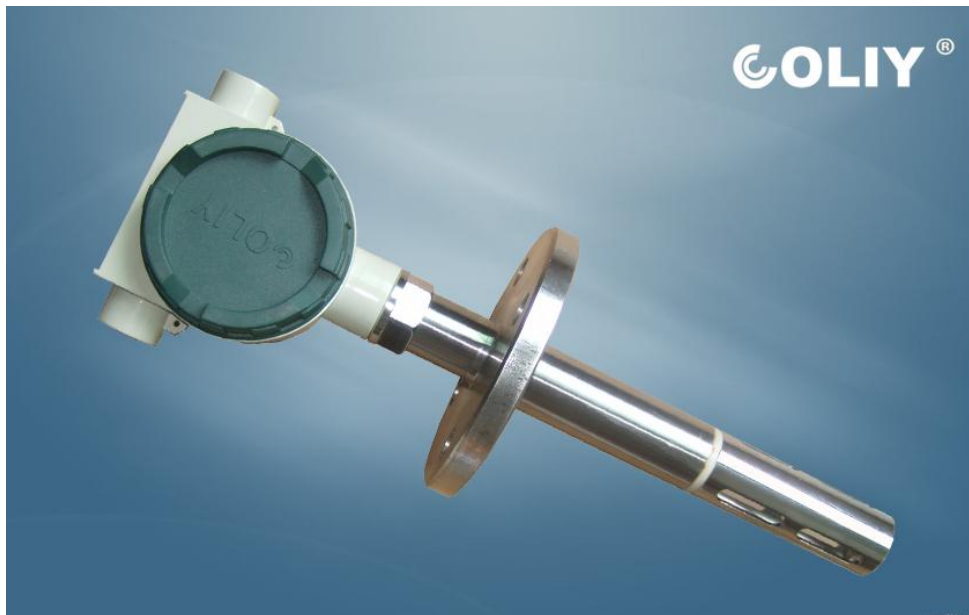


On-line liquid consistency analyzer C300



Description

The on-line liquid consistency analyzer C300 of Coliy Technology GmbH is the world's most advanced product for measuring consistency with characteristics of sturdiness and durability high sensitivity. It is not easily encrusted, corroded, contaminated, clogged or congested. The measurement accuracy is hardly affected by air bubbles in liquid. It can detect high-mineralization liquid especially suitable for measuring high concentration liquid. C300 can detect the concentration of the vast majority of liquids such as physiological saline slurry hydrochloric acid sludge the paper pulp alcohol oil milk ink pulp. Employing new technology of concentration measurement C300 is easy to calibrate and operate and free of maintenance with high accuracy and wide application representing a quantum progress in measurement methods of concentration.

The probe of C300 adopts the principle of ultra-high frequency electromagnetic wave: utilizing the resonance characteristics of L-band of the electromagnetic to detect the concentration. By detecting the resonant frequency and peak width of the

object with coincidental temperature compensation the medium's concentration can be measured accurately.

The on-line liquid consistency analyzer C300 could provide options to suit specific requirements with resolution up to 0.01% for concentration. It could be selected manually ranging from 0.1% to 100% for concentration enabling its wide application. Coliy Technology GmbH can customize the product according to clients' special requirements.

The on-line liquid consistency analyzer C300 uses fifth generation patent probe with temperature sensor inside. It makes accurate temperature adjustment and compensation through particular dynamic special calibration software. It is the built-in three-dimensional demarcated data module that makes operation and demarcation easy.

Practical applications

On-line detection of the concentration of dissolved liquid in water or solid substances in liquid. Concentration measurement of two different mixtures applies for all kinds of chemical plants daily chemical organic chemical pharmaceutical chemical food brewing industry and other places. Such as physiological salt concentration, slurry concentration, hydrochloric acid concentration, sludge concentration, pulp concentration, alcohol concentration, oil concentration, milk concentration, ink concentration, mine slurry concentration.

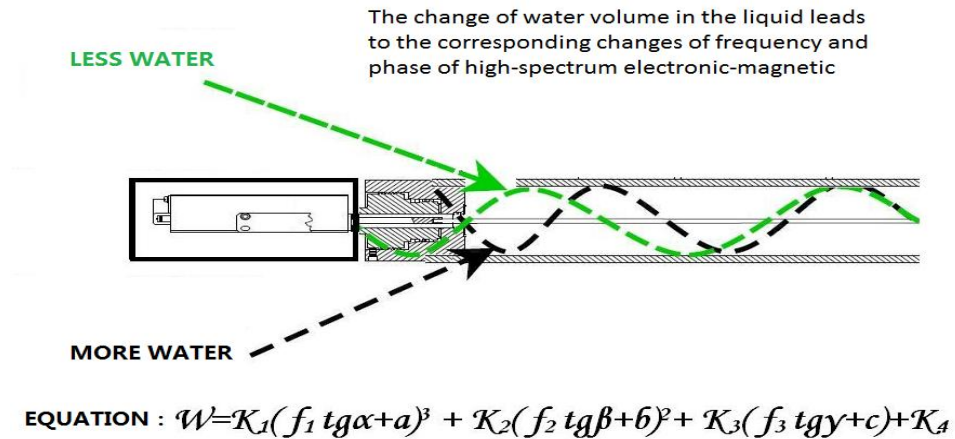
***Used as concentration-meter:** It can measure the percent concentration (or ratio) of solution or mixture. For example: all kinds of solution mine slurry mud mortar coal-water slurry fracturing fluid aluminum hydroxide solution beverage flotation agent etc.. The resolution can be up to 0.01% concentration.

C300 is easy to install maintain and calibrate and is an excellent measurement instrument.

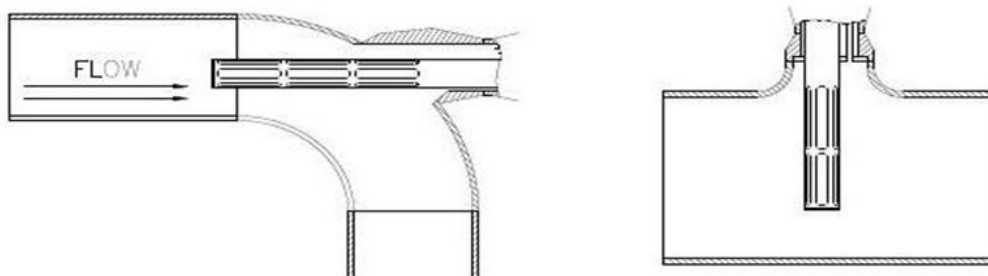
Features:

- Advanced detection principle
- High reliability
- High resolution
- automatic temperature compensation
- Simple calibration
- Easy installation
- CE Certification
- No radial source
- Sturdy and durable free of maintenance
- Multiple ranges for selection
- ISO 9000 manufacture standard
- Wide application suitable for most liquids

Working principles



Drawing of probe installation



Specifications

Range

Select casually from 0 to 100%

(concentration)

Resolution (Laboratory)

0.01% (concentration)

Accuracy (Laboratory)

1.0%Fs (Range under 50%)

Coliy Group

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Website: www.coliy.com

0.5%Fs (Range above 50%)

Mode of installation	2" NPT Screw or standard flange
Insertion depth	Standard 245mm or customized
Weight	5 to 10 Kgs (Subject to installation mode and length)
Highest temperature and pressure allowable for probe	Standard: 80°C 4.0 MPa; high tem.:120°C,4.0 MPa
Temperature compensation	Yes (If the temperature of the measuring liquid varies broadly the temperature compensation will be necessary.)
Probe materials	304 stainless steel or 316 stainless steel or titanium steel
Explosion proof	Explosion suppression DIICT6(option)
Output	RS-485, 4-20mA
Power supply	24VDC
Probe style	The unit can be support two probes one hollow and one solid probe which can then be used to measure low viscosity and high viscosity fluids

Note:

The product specifications are subject to change without notice along with new technology progress.

Guide of model selection

C300	-A	-B	-C	-D	-E	-F	-G
	-A Range (Select randomly)						
		-B Pressure Default: 1Mpa 2.5: 2.5Mpa 4: 4.0Mpa					
			-C Temperature Default: <80°C HT: <150°C				
				-D Mode of connection Default: screw thread F: flange			
					-E Probe materials Default: 304 stainless steel 316: 316 stainless steel AF: Wear-resistant stainless steel TI: titanium		
						-F Default: non explosion proof EX: explosion proof	
							-G Suffix
C300	-A	-B	-C	-D	-E	-F	-G

Example: C300 - 80% - 4- HT - F – TI