Silica Analyser CL1000-301

Online Colorimetric Measurement

CL1000-301 is a microprocessor controlled online analyser specifically designed for automatic silica monitoring on several types of waters matrix

Features

Easy configuration

With our modular configuration we can automate your color laboratory method with up to four reagents

Dual compartment enclosure

To ensure complete separation between electronics and hydraulics

Touch screen interface. Simple and user friendly menus and functions

Separate waste line for sample containing reagents

Long autonomy, low maintenance, low operating cost

Rugged and reliable

Designed for industrial and environmental on-line applications, ensures the highest level of robustness in the electronics, mechanics and hydraulics components

Easy installation and operation

To start measurement is enough to power the analyzer and connect reagents, sample and waste line.

Loss of sample input

Low reagent level alarm

Benefits

Programmable photometer

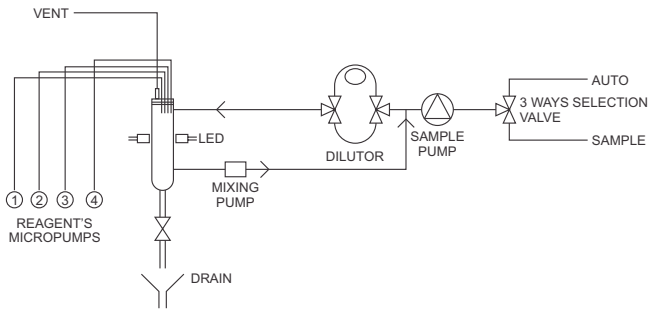
Trace level measurement, high range with auto dilution module

Auto / manual calibration, validation against standard

Free selectable measuring, cleaning and calibration intervals

Automatic cleaning

Measuring Principle and Hydraulics Diagram



After rinsing the cuvette, sample will pump into dilutor followed by distilled water into the cuvette. Mixing pump will then activated to mix the sample with distilled water (dilution process applies to high range models only. For low range models sample will pump directly into cuvette).

First measurement take place (reference) to eliminate interfering factors such as sample own colour or turbidity, miscellaneous reagent own colour and refractive index variations.

Next reagent will add into cuvette, and mixing pump will activate to mix the liquid from lower part to the upper part of the cuvette. Color development and second measurement take place.

The concentration is measured with the absorbance calculated based on the difference between the two measurements and the stored calibration parameters.

Technical Specifications	
Measuring Principle	**Colorimetric**
Model	CL1000-301
Manufacturer	AWA instruments pte singapore
Measuring principle	Online colorimetric
Colorimeter	LED IR- 850 nm, photodetector, thermostated
Measurement interval	Programmable
Measurement time	15 min
Range	0-1000 ppb / 0-5000 ppb / 0.2-150 ppm (auto dilution)
Detection limit	0.5 ppb for 0-1000 ppb / 2 ppb for 0-5000 ppb / 0.5 ppm for dilution modules
Repeatability	± 2% of measured full scale with turbidity < 40 NTU
Accuracy	0-500 ppb: ±1% or ±1 ppb / 500-5000 ppb: ±5% or ± 2 ppb whichever greater
Output	Signal 4-20mA, RS232
Input signals	2 configurable relays
Alarms	2 configurable relays
Sample pressure	0.2~1 bar
Sample temperature	5-50°C
Cleaning	Automatic cleaning with distilled water
Reagents consumption	~0.1 ml per analysis
Reagents storage	1 month (2L each)
Enclosure protection, MOC	IP54, coated steel
Display	Color touch screen, graphical
Power supply	110-220VAC , 50-60 Hz, 80VA
Weight	20 kg.
Dimensions	H 600 x W 409 x D 210 mm

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