

Colorimetric
On-line
Analyser



CL SERIES



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COLORIMETRIC ON-LINE ANALYSER

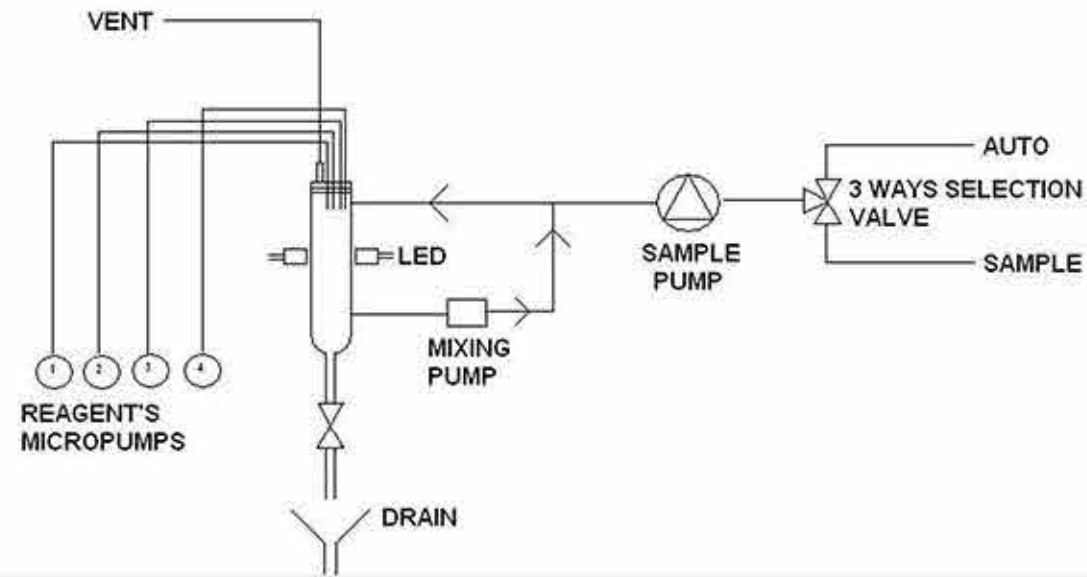
- Aluminium
- Ammonia
- Chlorine
- Chloride
- Chromium VI
- Copper
- Formaldehyde
- Hardness
- Hydrazine
- Iron
- Manganese
- Nickel
- Nitrate
- Phenol
- Phosphate
- Silica
- Sulphate
- TP
- Zinc
- and many others...

- Easy Configuration
- Touch-screen interface, simple and user friendly menus
- Low maintenance
- Low operating cost-competitive Rugged and reliable

APPLICATIONS:

- Waste water treatment plants
- Industrial applications
- Surface water monitoring
- Ultra-pure water
- Steam and condensate water
- Osmosis plants
- Ion exchange systems
- Boiler feed water
- Demineralisers
- Process control
- Process optimisation of waste water treatment plants
- Monitoring activated sludge basins
- Monitoring waste water treatment plant outlets
- Surface water analysis
- Drinking water analysis
- Monitoring of industrial water treatments





MEASURING PRINCIPLE

COLORIMETER MAKES TWO MEASUREMENTS DURING AN ANALYSIS CYCLE:

The first step is the measurement of the raw sample and allow to compensate the color and the turbidity of the sample and the fouling of the cell.

The second step is the measurement of the sample after color reagent addition and reaction time.

The concentration is measured with the absorbance calculated with the difference between the measurement and with the stored calibration parameters.

FEATURES

- **Dual compartment enclosure**
To ensure complete separation between electronics and hydraulics
- **Color touchscreen interface, simple and user friendly menus and functions**
- **Batch analysis: programmable frequency**
- **Temperature heated reaction cell**
- **Small dimensions**
- **Automatic calibration / validation / cleaning**
- **Built in peristaltic pump for sampling**
- **Low reagent level alarm**
- **Loss of sample input**
- **Separate waste line for sample containing reagents**
- **Long autonomy: low maintenance, low operating cost**
- **Robust 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**
To start measurement is enough to power the analyzer and connect reagents, sample and waste line



STANDARD METHOD AND RANGES

Model	Parameters	Method	Ranges	
			Without dilution	With dilution
CL912	Aluminum	Pyrocathocol	5-250ppb	0.3-13ppm
CL102	Ammonium	Salicylate	0.3-5ppm	15-250ppm
CL402	Chloride	Mercury Thiocyanate	4-100ppm	100-5000ppm
CL412	Chlorine	DPD	0-5ppm	0-250ppm
CL502	Chromium (VI)	DPC	1-1000ppb	0.1-50ppm
CL921	Copper (II)	Bathocuproine	0.1-3ppm	5-150ppm
CL603	Cyanide	Chloroamine-T	5-400ppb	0.3-20ppm
CL323	Hardness	O-CresolphthaleinComplexone	10-1000ppb	0.1-50ppm
CL701	Hydrazine	PAB	0-400ppb	1.5-20ppm
CL933	Iron (II)	Ferrozine	2-300ppb	0.1-15ppm
CL943	Manganese	Formaloxime	10-200ppb	0.5-10ppm
CL953	Nickel (II)	Dimethylglyxime	0-3ppm	0-150ppm
CL112	Nitrite	NEDD	1-300ppb	0.1-15ppm
CL201	Phosphate	Blue (or) Yellow	0-5ppm (or) 0-15ppm	0-250ppm (or) 0-750ppm
CL301	Silica	Sodium Molybdate	0-3ppm	0-150ppm
CL822	Sulfate	Turbidimetric	10-300ppm	500-15000ppm
CL213	TP	Blue (or) Yellow	0-5ppm (or) 0-10ppm	0-250ppm (or) 0-500ppm
CL962	Zinc	Zincon	0.1-3.5ppm	2.5-175ppm

*Above informations subjected to change without prior notice.

TECHNICAL DATA

Specification	Relevant standard
Response time	Base on analysis method
Cleaning mechanism	Automatic cleaning using distilled water
Accuracy	±5% of Full Range
Repeatability	±2%
Calibration	Manual or automatic calibration
Power Supply	110-130VAC or 220-240VAC / 50-60Hz / 80VA
Operating Temperature	0-40°C
Output	4-20mA Output
Communication	MRS232
Alarm output	2 configurable relays (NO Relay 1 2 – NC Relay 1 2)
Enclosure	IP54, Coated Steel
Dimensions	Standard – H 600 x W 409 x D 210 mm
Weight	20kg
Inlet pressure	Atmospheric
Pumping Height	Up to 5 meters

*Specifications subjected to change without prior notice.

OPTIONAL ITEMS

- Fast loop reservoir with level switch
- Oxidation module
- Dual stream
- Filtration unit
- Multi stream
- Mounting kit for filtration unit

