



COLORIMETER

Compact online colorimetric analyser Programmable online photometer.

Measuring Principle:

Compact on-line colorimetric analyzer.
Programmable photometer.

Main features:

- Dual stream
- Color touchscreen interface
- Batch analysis: programmable frequency
- Temperature heated reaction cell
- Dual compartment enclosure
- Small dimensions
- Low reagent level alarm
- Automatic calibration / validation / cleaning
- Separate waste line for sample containing reagents
- Long autonomy, low maintenance, low operating cost
- Robust and reliable
- Easy installation

Applications:

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



Parameters:

- Aluminium
- Ammonia
- Chloride
- Chlorine
- Chromium VI
- Copper
- Formaldehyde
- Hardness
- Hydrazine
- Iron
- Manganese
- Nickel
- Nitrite
- Phenol
- Phosphate
- Silica
- Sulphate
- TP
- Zinc



Total P - P/PO4		service		11:44	
RUN		DISPLAY		PROGRAM	
1	Tot.P	0.0	ppb		
2	P/PO4	0.0	ppb		
		wait			
Reag 1	99%	Reag 2	99%	Reag 3	100%
Reag 4	100%				


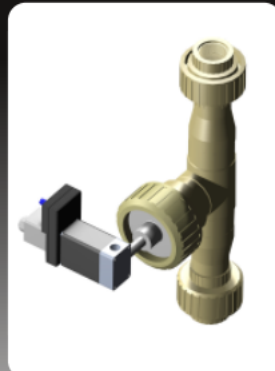
Colorimeter makes two measurements during an analysis cycle:

the first step is the measurement of the raw sample and allow to compensate the colour 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 two measurements and with the stored calibration parameters.

- 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 online 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.

OPTIONS:

<p>Fast loop reservoir with level switch</p> <p>Tank for dilution water with level switch</p> 	<p>Dilution module</p> <p>Datalogger</p> <p>GSM module</p> <p>Oxydation module</p> <p>Shelf for reagents' bottles</p>	<p>Dual stream</p> <p>Multistream</p>	<p>Filtration unit</p> <p>Mounting kit for filtration unit</p> 
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TECHNICAL SPECIFICATION:

Analysis Method: Differential Photometric absorbance

Analysis frequency: programmable, batch analysis

Repeatability: +/- 2% on absorbance value with turbidity < 80 NTU

Drift: +/- 2% per month on the absorbance measurement

Power supply: 110-220Vac, 50-60 Hz 80 VA

Mounting: Wall mounting or with bench support

Operating temperature: 5 - 45°C / 41 - 113°F

Cell diameter: 16 mm or 25 mm

Ingress protection: IP55

Cabinet: Cold rolled steel epoxy powder coated

Dimensions: 380Lx600Hx210P mm

Weight: approx. 25 kg or 55 lbs

Access: 2 level password

Analog outputs: n°2 4-20 mA

Digital input: extra cycle, online

Alarm relays: n°4 programmable relays

- Fault alarm
- Cycle command
- Latch / unlatch
- Power on
- Result alarm
- Loss of sample 1
- Loss of sample 2

Datalogger: integrated with USB download

Automatic calibration, validation, cleaning: Automatic calibration, validation, cleaning

SAMPLE:

Sample temperature: 5 - 45°C / 41 - 113°F

Inlet sample pressure: atmospheric

Outlet sample pressure: atmospheric, waste tubing O.D. 3/8"

Sample flow for the fast loop reservoir: 100-500 ml / min

Connections: sample to the fast loop reservoir with flexible tubing
O.D. 6 mm, outlet tubing O.D. 12 mm.