MODEL CA6 - PHOSPHATE ANALYZER

Compact online colorimeter for the automatic measurement of Phosphates

APPLICATION FIELDS

- Power Utility
- Cooling water
- Drinking water
- Boiler feedwater
- Industrial and municipal wastewater
- Surface water

ADVANTAGES / FEATURES

Dual compartment enclosure
To ensure complete separation between the electronics and the wet part.

Low reagent consumption
Minimum operating cost by small reagent consumption, only 2.5L (0.66 US.gal) for the 16 mm cell / 5L (1.32 US.gal) for the 26 mm cell of each reagent every 90 days with 15 minute analysis frequency.

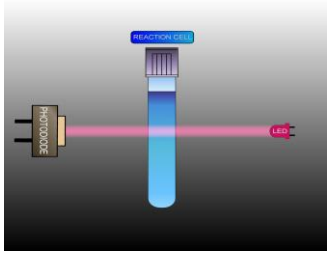
Automatic calibration / validation / cleaning
Validation, cleaning and calibration are standard features which significantly reduce downtime and operator intervention ensuring the most accurate results are obtained.
Free selectable validation, cleaning and calibration intervals.

Wide measuring range
The determination ranges of the CA6 Phosphate Analyzer vary from trace µg/L to 1200 mg/L PO_4 using internal dilution module.

Color touchscreen user interface
The CA6 Colorimeter is equipped with a graphic touchscreen interface showing measured values and status information. Easy access to menus and functions. Multiple languages. Integrated datalogger with USB download.

Factory tested, ready for installation and operation
Just connect the power, sample, and reagent lines and the analyzer is fully operational.

Multiple streams
Dual streams version available. External Sequencer, switching up to 4 sample streams.



MEASUREMENT PRINCIPLE – BLUE METHOD

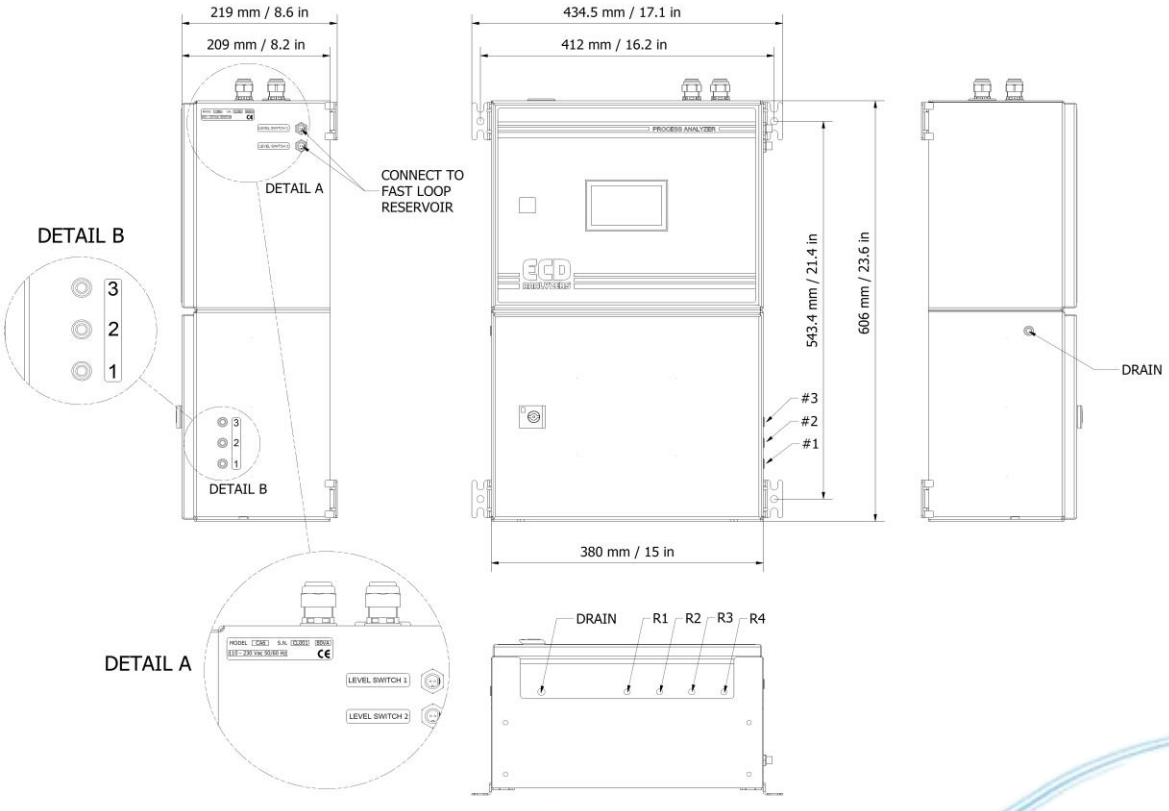
Molybdate reacts in acid medium with orthophosphate to form phosphomolybdic acid, which is then reduced to intensely colored molybdenum blue.

The absorbance intensity is proportional to the phosphate concentration in the sample and is determined at 850 nm.

TECHNICAL SPECIFICATIONS

Measured parameter:	PO_4 / P-PO_4 (ppb, ppm, mg/l). Phosphates / reactive phosphorus
Measuring principle:	Differential photometric absorbance. Blue Method.
Measuring range:	0.01 to 4 ppm P-PO_4 (12.5 ppm PO_4) for the 26 mm cell - 0.05 to 10 ppm P-PO_4 / (30 ppm PO_4) for the 16 mm cell; up to 400 ppm P-PO_4 / 1200 ppm PO_4 with internal dilution.
Reproducibility:	± 5 ppb or ± 5%, whichever is greater (26 mm cell) ± 10 ppb or ± 5%, whichever is greater (16 mm cell).
Analysis frequency:	Freely programmable, batch near-continuous analysis.
Cycle time:	8-10 minutes, including conditioning before analysis cycle and rinsing after measuring.
Reaction cell:	Temperature heated
Sample:	Pressure-free from overflow vessel Temperature: 41 - 122 °F (5 to 50 °C) Flow Rate: 80 to 500 mL/min Connection: 6 mm (¼-in.)
Drain:	Pressure-free, atmospheric drain Connection: 12 mm (½-in.)
N° of streams:	1, 2 with integrated switching valve 3, 4 with external sequencer

Dimensions (H x W x D):	23.6 x 15.0 x 8.2 in / 606 x 380 x 209 mm
Weight:	Approx. 44 lbs (20 Kg)
Power supply:	Voltage: 100 - 240 VAC 50/60 Hz standard or 24 VDC (option) Power consumption: max. 80 VA
Outputs:	2 x 4-20 mA outputs for measured data Modbus RTU RS485
Alarms:	4 SPDT programmable potential free relays
Digital input:	Remote start / stop
Operating Temperature:	41 - 113 °F (5 - 45 °C)
Humidity:	10 to 90% non-condensing (indoor use, outdoor installation only possible with protective cabinet or shelter not included)
Installation:	Wall mount (standard), bench top support or panel mount (options).
Ingress Protection:	IP54



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