Orthophosphate Measurement with the new P 700 IQ Analyzer

New Sensor for the IQ SENSOR NET

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Features of the P 700 IQ

The P 700 IQ for orthophosphate measurement represents another component for the IQ SENSOR NET. This analyzer for phosphate elimination is easy to integrate in new or existing IQ systems.

- **On-site installation**
  Analyzer can be used outdoor at any weather conditions
- **Compact design**
  Pump for permeate supply is integrated in the analyzer housing
- **Low Reagent Consumption**
  Reduction of cost of ownership to a minumum
- **Wide measuring range**
  Suitable for universal applications
- **Automatic calibration**
  Fully automatic and individually adjustable calibration function for self-monitoring and control
- **Direct connection to the IQ SENSOR NET**
  Take advantage of the IQ SENSOR NET world: flexibility, modularity, reliability and cost efficient system extension

Technical Data

Measuring method	Molybdate-Vanadate
Measuring Range	A: 0.05 … 15.00 mg/l PO_4-P B: 1 … 50 mg/l PO_4-P
Resolution	A: 0.05 mg/l PO_4-P B: 1 mg/l PO_4-P
Accuracy	A: ± 2%, ± 0.05 mg/l B: ± 2%, ± 1 mg/l
Response time t90	< 5 min
Detection limit	A: 0.05 mg/l PO_4-P B: 1 mg/l PO_4-P
Calibration	Manual or automatic (adjustable)
pH range	5 … 9
Sample temperature	+ 4 … + 45 °C
Measuring interval	< 5 min (adjustable)
Operating temperature	– 20 … + 40 °C
Storage temperature	– 20 … + 50 °C
Reagent consumption	2500 ml for 8 months with measuring range (A) and 10 min measuring interval 2500 ml for 4 months with measuring range (B) and 10 min measuring interval
Cleaning solution	1000 ml for 4 months with cleaning every 24h
Certifications	CE, ETL
Equipment safety	EN 61010-1; UL 3111-1; CAN/CSA C22.2 No. 1010.1
Protection class	IP 54
Climate control	Heating, cooling (fan)
Power supply	115/230 VAC
Weight	~ 30 kg (without reagents)
Dimensions	~ 678 x 780 x 395 mm (~ 26.69 x 30.71 x 15.55 in.)
Outputs	Relays, analog outputs, interfaces via IQ SENSOR NET-components

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