

AQUACON PA10/PA20

Process analyzers for measurement of the Polyacrylate concentration

The AQUACON PA10 and PA20 process photometers can be used for the monitoring and control of the concentration of cooling water treatment products containing dissolved anionic polymers (e.g. polyacrylates). Measurement principle is the photometric detection of the turbidity formed after adding a cationic polymer (Hyamine) to a buffered water sample. Main applications for the photometers are the monitoring and control of cooling water and boiler water.

The analyzers consist of a control unit with touchscreen and an analysis unit with measuring chamber, valve, dosing pumps and all required tube connections. The control unit includes a microprocessor which controls the automatic measurement incl. sampling, rinsing, reagent dosing and surveillance of the photodetection system.

Your advantages:

- ⇒ Automatic measurement incl. self test and drift compensation
- ⇒ Easy operation via touchscreen
- ⇒ Adjustable limit value and alarm value
- ⇒ Programmable analog output (0/4-20 mA), optionally with USB port for easy data storage
- ⇒ Adjustable break time between two analysis
- ⇒ External start/stop of an analysis possible
- ⇒ No external calibration required
- ⇒ External plug connections (IP65) for alarm relay, limit relay, analysis relay, external start/stop, analog output 0/4-20 mA
- ⇒ Multi range power supply (110–230 Volt, 50–60 Hz)
- ⇒ Including polycarbonate wall cabinet



Order informations:

AQUACON PA10 AQUACON PA20	(0,1 – 20 ppm, product specific) (10 – 150 ppm, product specific)	Order No. 693 2814 01 Order No. 693 2815 01
Reagent PA10-R1001	(500 ml)	Order No. 101 2814 01
Reagent PA10-R1002	(500 ml)	Order No. 102 2814 01
Reagent PA20-R1001	(500 ml)	Order No. 101 2815 01
Reagent PA20-R1002	(500 ml)	Order No. 102 2815 01



Technical Data

Current output	0/4 - 20 mA, max. load 500 ohm
Display	240 x 128 dots, touchscreen
Relays	1 x Alarm, potential-free 230 V/50 Hz, 3A
	1 x Limit, potential-free 230 V/50 Hz, 3A
	1 x Analysis state, potential-free 230 V/50 Hz, 3A
External Switching	potential-free contact, 18 V DC, ca. 4 mA
Power Supply	110 - 230 V 50/ 60 Hz
Power Consumption	approx. 16 VA
Dimensions	640 x 315 x 190 mm (H x W x D)
Protection	IP 65 (transmitter housing)
Connections	Plugs with circular connection 1,5 mm ²
Temperature	5° to 45°C, at consumption of reagents within 6 months

Since it is company policy to continuously improve its product range, we reserve the right to make changes in the product design without notification to its users.

Specifications

Parameter	Polyacrylates		
Description	Automatic microprocessor controlled analyzer for the		
	photometric determination of dissolved polyacrylates		
Typical Applications	Analysis of cooling water and boiler water		
	Control of cooling water dispersing agents		
Analysis Method:	Hyamine method	Hyamine method	
Analyzer type	AQUACON PA10	AQUACON PA20	
Measuring Range	0,1 – 20 ppm	10 – 150 ppm	
	(product specific)	(product specific)	
Resolution	0,1 ppm	1 ppm	
Accuracy	2 % of end value		
Reproducibility	1 % of end value		
Zero-point Stability	automatic adjustment		
Number of Samples	1		
Sample			
Operating Pressure	0,1 - 10 bar		
Temperature	5 - 30 °C		
Sample Volume	25 ml per analysis (excluding rinsing)		
Sample Condition	clear, filtrated		
Chemical Demands	pH 4-9		
Drain	pressure free into open drain		
Reagents			
Number	2		
Storage Temp.	0 - 30°C		
Usage/analysis	appr. 1,3 ml each reagent		
Reagent volume	500 ml each		
Suitable for	appr. 400 analysis		
Analysis			
Cycle (approx.)	7 - 10 min		
Sample interval	1 – 99 min or external start/stop		



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