

AQUACON PH80

Process analyzer for photometric pH value measurement

The AQUACON PH80 process photometer can be used for the monitoring and control of the pH value. Measurement principle is the photometric detection of the color formed after adding a specific indicator reagent to a water sample.

Main applications for the photometer are the control of the pH value in drinking water, cooling water and swimming pool water.

The analyzer consists 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
- ⇒ Measurement range 6,80 – 8,80 pH
- ⇒ Easy operation via touchscreen
- ⇒ Adjustable limit value and alarm value
- ⇒ Programmable analog output (0/4-20 mA)
- ⇒ Adjustable break time between two analysis
- ⇒ External start/stop of an analysis possible
- ⇒ No further 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



Example for AQUACON analyzer

Order informations:

AQUACON PH80	(6,80 – 8,80 pH)	Order No. 693 3180 01
Reagent PH80	(500 ml)	Order No. 101 3180 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	pH value
Description	Automatic microprocessor controlled analyzer for the photometric determination of the pH value
Typical Applications	Control of drinking water, cooling water and pool water
Analysis Method:	Photometric analysis with specific indicator solution
Analyzer type	AQUACON PH80
Measuring Range	6,80 – 8,80 pH
Resolution	0,01
Accuracy	+/- 0,20 pH
Reproducibility	+/- 0,05 pH
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 6,8 – 8,8 Drain pressure free into open drain
Reagents	Number 1 Storage Temp. 5 – 25 °C Usage/analysis appr. 0,54 ml Reagent volume 500 ml Suitable for appr. 925 analysis
Analysis	Cycle (approx.) 3 - 4 min (incl. rinsing) Sample interval 1 – 99 min or external start/stop