

Online Residual/Total Chlorine Analyser (colourimetric)

PACON 2501

The PACON 2501 Colorimetric Chlorine analyser is an accurate, reliable, cost-effective and low-maintenance instrument for continuous on-line monitoring of residual chlorine. It detects the concentration of residual chlorine using the DPD colourimetric method and automatically adds reagents for colourimetric measurement, making it suitable for residual chlorine measurement during chlorination and disinfection and for monitoring residual chlorine concentrations in drinking water networks. Selecting total chlorine reagent, total chlorine concentration can be monitored online.



PHASES OF THE MEASURING CYCLE

- The sample enters the measuring cell for washing/priming
- A zero reference point is established at the beginning of the cycle by measuring blank absorbance. (This compensates for the sample's color intensity and turbidity before the chlorine measurement is made.)
- Reagent addition
- Development of the reaction through stirring
- Colour reading (absorbance): the differential measurement between zero and absorbance is processed and converted into a concentration value using correlation tables

Order Guide

Order No.	Description
33-2501-00	PACON 2501 On-line Residual/Total Chlorine Analyser
50-2500-00	Residual chlorine reagent kit, 5000 measurements possible
50-2500-02	Total chlorine reagent kit, 5000 measurements possible
50-2501-10	Spare parts kit for residual chlorine, including: peristaltic pump tubing, vials, etc.

Measurement parameters

Residual Chlorine, Total Chlorine

Applications

Piped water, Drinking water network, Reverse osmosis, Chilled water
Swimming pools, Shampoo (liquid), Sterilisation process

Features

- DPD colourimetric method for more accurate and stable measurements
- Auto-diagnostics
- Low reagent consumption and easy replacement
- Automatic and manual measurement modes
- Analysis cycle time approx. 2.5 minutes
- IP66 protection rating
- 4-20mA output
- RS485 Modbus communication
- Password protection against unauthorised operation
- Reagent consumption rate: 0.2 ml per measurement

Technical parameter

Measuring principle:	DPD colourimetric method
Measuring range:	0.00-5.00 mg/l (ppm) residual chlorine
Resolution:	0.01 mg/l (ppm)
Accuracy:	±1%f.s.
LOD:	0.03 mg/L
Cycle time:	adjustable: 300- 3600s (system default 300s)
Display:	4.3" LCD touch screen display(measured value,measurement mode and relay status)
Language:	Chinese/English
Power supply:	100-240VAC,50/60Hz
Analogue output:	4-20mA output,Max.500Ω
Digital output:	RS485 Modbus
Alarm:	2 sets of independently set Hi/Lo alarm points with hysteresis setting, 5A/250VAC
Operating conditions:	Operating temperature: 0-50°C; Humidity: 10-95%, non-condensing
Recommendation:	Flow rate: 1/min; Pressure: 1 bar
Protection class:	IP66
Installation:	wall mounting
Size:	350x650x150mm