

# AT O 4

## ON-LINE AUTOMATIC MULTIPARAMETRIC TITRATOR

### Peracetic acid (PAA) and hydrogen peroxide (H<sub>2</sub>O<sub>2</sub>) measurement

AT04 titrator has been designed for controlling the concentrations of sterilizing agent during the bath treatment for containers and plugs. It can carry out the following analysis:

- PAA + H<sub>2</sub>O<sub>2</sub>
- PAA "rapid"

The unit is conceived for one or two sampling lines.

This COMPACT UNIT includes:

- structure in STAINLESS-STEEL with protected tank box
- dispenser and peristaltic pumps for dosing product and reagents
- plexiglas analysis basin with siphon pipe
- micro processed unit for elaboration, indication and transmission
- local print section
- sampling lines with protection carter.



## TECHNICAL CHARACTERISTICS

## Scale range:

- Peracetic Acid: from 0.6 to 6 g/l  
Accuracy:  $\pm 6\%$  on 1500 mg/l
- Hydrogen Peroxide: from 2 to 20 g/l  
Accuracy:  $\pm 2\%$  on 5000 mg/l

## Analysis time (cycle with mean values):

method PAA+H<sub>2</sub>O<sub>2</sub> - 10 min  
PAA only method - 6 min

## Volume of product sampled:

0.5 litres/analysis + line cleaning

## Memory :

last 100 analysis

## Transmission session:

Interfaces

optoinsulated by supply:

- Analogue  
n° 4 outlets 4...20mA on 470ohm
- Digital  
n° 1 RS232 (for PC connection or printer)  
n° 1 RS422/485  
n° 1 PROFIBUS (optional)
- Input Contacts  
n° 4 external Start inlets
- Output contacts  
n° 2 measure alarm contacts  
n° 1 voltage free contact for ready machine  
n° 1 stop titrating contact

## Supply:

- power supply:  
AC 100/120V; 50...60Hz; 3.3A  
AC 200/240V; 50...60Hz; 2A
- water supply: demineralised water  
1.5...4 bar, consumption of about  
2 litres/analysis
- pneumatic: air 6...10 bar

## Methods:

- analysis with possibility of choice:
- standard range  
line 1) PAA+H<sub>2</sub>O<sub>2</sub>  
line 2) quick PAA
- high concentration range  
line 3) PAA+H<sub>2</sub>O<sub>2</sub>  
line 4) quick PAA

## CONSTRUCTION FEATURES

## Sensors:

- Redox platinum combined electrode with measurement circuit inlet for 1 mV channel

## Reagents sections:

- n° 1 new version dispenser
- n° 1 glass syringe for product
- n° 2 glass syringes  
for thiosulphate and permanganate
- n° 4 peristaltic pumps  
(H<sub>2</sub>SO<sub>4</sub>, KI, NaHCO<sub>3</sub>, CH<sub>3</sub>COOH)

## Sampling section:

- n° 2 (minimum n° 1) sampling lines in PP
- product inlet L1 and L2 with  
20 mm connector for pipes
- 20 mm release of outlet connector
- 20 mm release of outlet connector bowl

## Utilities:

- Power connections:  
inlet with leak-tight cable clamps
- Pneumatic connection:  
rilsan pipe 6x4 mm
- Hydraulic connections for water inlet:  
quick fit, pipe 12-13x17-19 mm

## Materials:

- of product circuit: PPH, teflon, PSU, silicon, glass, PEEK™, PMMA, FFKM Kalrez®
- in contact with reagents: PVC, neoprene, PEEK™, glass, Teflon, PVDF, PPH, PMMA, EPDM, FFKM Kalrez®

## Dimensions:

(wxhxd) 730x1400x535 mm

## Weight :

115 kg

## Protection degree:

IP65

## Rack material:

stainless steel AISI 304

## Limit conditions for analysis of sampled product:

- 6 bar at 20 °C
- 3 bar at 70 °C

## Working temperature:

from 0 to 70 °C



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