

JOHNSON DIVERSEY PERACEPTIC ANALYZER FOR UNIDOX



Dear Customer,

Gea Procomac SpA informs about the opportunity to install on the unit for the production of peracetic based acid sterilizing solution (Unidox) present in the aseptic line in your possession, an automatic analysis system for the reading of the peracetic concentration.

The analysis system which Gea Procomac SpA installs on the latest generation of Unidox is produced by **Johnson Diversey** and can also be integrated on the machine in your possession, by means of appropriate electrical and hydraulic modifications.

DESCRIPTION OF JOHNSON DIVERSEY ANALYZER

The new Johnson Diversey analyzer is a compact system for the line detection of the concentration of PAA (peracetic). The equipment includes the transmitter, the probe reading, the taking of sample and the feeder pump. The reading probe is made of PEEK and guarantees an excellent resistance to chemical and mechanical aggression (100% resistance to surfactants).

The instrument is equipped with an on-board display for the visualization of data and a series of electrical input/output signals for the effective integration with the Unidox automation.

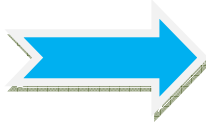
The calibration process is simple and intuitive.

The principle of measuring the concentration of PAA of the Johnson Diversey probe **does not require the use of chemical reagents.**

TECHNICAL CHARACTERISTICS

PAA reading range	0-20.000 ppm
Temperature range	5-60°C
Max pressure	1 Bar
Power	24Vdc
Absorption	2,2W
Protection degree	IP65
Input signals	PAA value (4-20mA) PAA concentration ok Flow ok Service diaphragm
Output signals	Release
Electrical conformity	CE conform to EMC Directive EN 50081.1 and EN 50082.2
Dimensions	405 x 75 x 125 mm
Weight	1,8 Kg

UPGRADE FOR UNIDOX NOT EQUIPPED WITH AUTOMATIC PERACETIC ANALYZER



The installation of the Johnson Diversey analyzer combined with a general review of the automation software will guarantee the following :

- **Safe and continuous reading of the peracetic concentration value with automatic correction of the dosing in order to maintain the imposed set point values.**
- **Zero costs relevant to the titration lab which the operator is forced to currently perform.**
- **Complete upgrade of the machine's functioning with the introduction of the optimization software applied by our Automation Department on the machines of the last generation.**

UPGRADE FOR UNIDOX EQUIPPED WITH AUTOMATIC MASELLI TITRATION



The replacement of the Maselli titration with the new Johnson Diversey analyzer will guarantee the following:

- **Maintenance cost reduction, seeing the simplicity and reliability of the new Johnson Diversey analyzer.**
- **Zero cost relevant to the purchasing of the necessary reagents for the Maselli titrator.**

Regarding the lack of purchasing of the reagents, we indicate here below an estimation (based on average prices of purchase of reagents on the Italian market) of the effective reduction of operating costs of the new Johnson Diversey analyzer in respect to the Maselli titrator.

Type	Denomination	Average Monthly Consumption *	Reagent Cost (Euro/litro)	Monthly Savings (Euro)
KMnO ₄	Potassium permanganate	32 litres	7,00	224,00
Na ₂ S ₂ O ₃	Sodium thiosulfate	1,2 litres	5,00	6,00
H ₂ SO ₄	Sulfuric Acid	40 litres	8,50	340,00
KI 20g/l	Potassium iodide	20 litres	24,00	480,00
NaHCO ₃	Sodium bicarbonate	20 litres	35,00	700,00

* Consumption calculated on 4 titrators hourly for 24 hours daily for 20 days per month (total: 1920 monthly titrations)

TOTAL MONTHLY SAVINGS: 1.745,00 Euro



SUPPLY CONDITIONS

For the supply conditions, please contact our Upgrades Department who will formulate the best technical / commercial proposal for the installation of the Johnson Diversey analyzer on the Unidox Gea Procomac SpA in your possession.

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