

## CHLORINE MEASURING SYSTEM

An integrated and reliable chlorination and dosing measurement system consists of:

- A chlorination measurement electrode (probe) D. CLP.
- An electrode holder (probe holder).
- A control processor (controller).
- Dosing pump ATAM4 NPFFCOO.



## ELECTRODE CHLORINE

It is an amperometric sensor that measures free or bound chlorine.

- It's expensive
- It's very sensitive
- It's expensive



The electrode must be placed in a dedicated chlorine receptacle. This means that a bypass with a steady flow of 60 l / h must be created to position the electrode holder and the measuring electrode.

Code	Description	pH	Temperature	Pressure
31181805028	Measuring electrode– D.CLP4I – Free inorganic chlorine cl 0 ÷ 200 ppm 45 °C	4÷8	45 °C	1 bar

## ELECTRODE SOCKET

The electrode must be inserted into the specific container. This means that a detour is created. There should be a constant flow of water that passes through the electrode receptacle to make the measurement. The water flow should be at 60 l / h.

Code	Description	Water flow
31181805029	Υποδοχή ηλεκτροδίου – Probe holder Flux, ροή 60 l/h	60 l/h



## ΟΡΓΑΝΟ ΕΛΕΓΧΟΥ NEXUS 2000 PS

The NEXUS 2000 PS control processor takes the measurement from the electrode and, depending on the desired setting (setpoint), instructs the dosing pump to add chlorine or stop.

- Temperature measurement 0÷100 °C (Ακρίβεια 1%)
- Signal output 0/4÷20 - 20÷4/10 mA (±2%)
- Digital power input (VDC/VAC), standby
- 2 different set points from two switch contacts 250V, 10A
- Multi-language menu
- Code
- Digital setting with quality display of the receiver
- Status indicator for delayed measurements and alarms
- Setting for analogue dosing.



Measurement	Measuring range	Accuracy of measurement	Power supply
pH	0÷14,00	± 1% f.s.	100÷240 Vac 50Hz / 60 Hz
ORP	± 1,500 mV	± 1% f.s.	100÷240 Vac 50Hz / 60 Hz
CD	10÷20.000 μS	± 1% f.s.	100÷240 Vac 50Hz / 60 Hz
CL	0÷200 ppm	± 1% f.s.	100÷240 Vac 50Hz / 60 Hz
FLOW	0÷9.999.999 L/m <sup>3</sup> /GAL	± 1% f.s.	100÷240 Vac 50Hz / 60 Hz

Code	Description
31181805030	Control processor – NX 2000 PS cl 0 ÷ 2 / 0 ÷ 5 / 0 ÷ 10 / 0 ÷ 20 / 0 ÷ 200 ppm

## ANALOG PUMP AT.AM 4

- Analog pump with analogue flow
- To a digital signal (water meter) with the possibility multiply or divide the impulses received (4:1-1:1-10:1-1xN)
- To an analogic signal (4÷20 mA) with the possibility to regulate in percentage the maximum flow
- 0÷100% manual flow regulation, constant function

Code	Description	Pressure	Flow Rates	Cc/Stroke	Connections	Strokes/Min
31181805005	Dosing pump EPDM PVDF CERAMICA	5 bar	30 l/h	1,67	8/12 mm	300
		4 bar	40 l/h	2,22		
		2 bar	55 l/h	3,05		
		0,1 bar	110 l/h	6,11		



- PVDF PUMP HEAD suitable for chemical used in the Industrial, Waste Water Treatment and Potable Water applications
- CERAMIC BALL full chemical compatibility
- PTFE DIAPHRAGM unique life expectancy and compatibility with most chemicals
- STEADY DOSING Stabilized Multi Power Supply 100÷240 Vac 50/60 Hz with reduced consumption
- QUICK CONNECTIONS
- MANUAL PRIMING VALVE
- IP65 PROTECTION
- ADJUSTABLE FLOW RATE knob on the Front Panel
- POWER-ON and LEVEL ALARMS LED

## DIGITAL PUMP AT.MT 4

- Digital pump with analog
- To a digital signal 1:n ; n:1 ; 1:c (batch) or directly in ppm
- To an analogic signal 0/4÷20 mA 20÷4 mA selectable
- Digital flow regulation, with the possibility to set the max flow.

Code	Model	Pressure	Flow Rates	Cc/Stroke	Connections	Strokes /Min
31181805020	ATMT4HNPFFC00	5 bar	30 l/h	1,67	8/12 mm	300
		4 bar	40 l/h	2,22		
		2 bar	55 l/h	3,05		
		0,1 bar	110 l/h	6,11		



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- IP65 PROTECTION
- ADJUSTABLE FLOW RATE, digital regulation on the Front Panel
- POWER-ON and LEVEL ALARMS LED

**NOTE:** All pumps are equipped with PVDF pump head and PVDF installation kits.

For sealing rings, note the following:

- FPM rings are used for nitric acid and sodium hypochlorite
- EPDM rings are used for peracetic acid + phosphoric acid
- EPDM rings are used for caustic soda