Water Treatment

NEXUS 7000

MULTIPARAMETER INSTRUMENTS

Main characteristics

- Compact and easy to use controller, allows the measurement of the following parameters: pH / Rx, Free Chlorine, Temperature, 2 inputs for chemicals level probes
- 4 digital outputs
- IP65 protection
- 3 relays with power supply for dosing pumps
- 2 dry contact relay for the alarm state
- 2 current outputs (4 to 20 mA)
- 2 frequency channels "open collectors"
- RS485 serial port with Modbus RTU communication protocol
- Alphanumeric display, 4 lines and 20 characters
- High measuring definition

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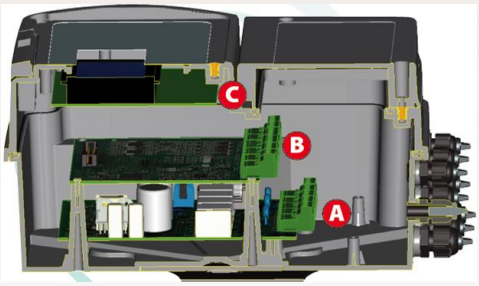
Measuring Range

Ph: 0 ÷ 14
ORP: ± 1500 mV
CD: 1÷200 - 10÷2000 - 100÷20000 - 200÷50000 µS
CL(amperometric-potenziostatic)/CL DIOXIDE (potenziostatic probe): 0÷0.50 - 0÷1.00 - 0÷ 2.00 – 0 ÷ 5.00 – 0÷10.0 - 0 ÷ 20.0 – 0 ÷ 200 ppm
T°: 0÷100°C with PT100
Models: Cl- PH/CL*free*-PH/CL*free*/RX-PH/CL*free*/CL tot
Versione doppio parametro: PH-Cloro
Alimentazione: 100÷240 Vac 50/60 Hz

Components



Power supply circuit

Control circuit

Display circuit

Wall mounting supporting bracket

Huge space for connection terminal, block, accessible by taking out the cover.

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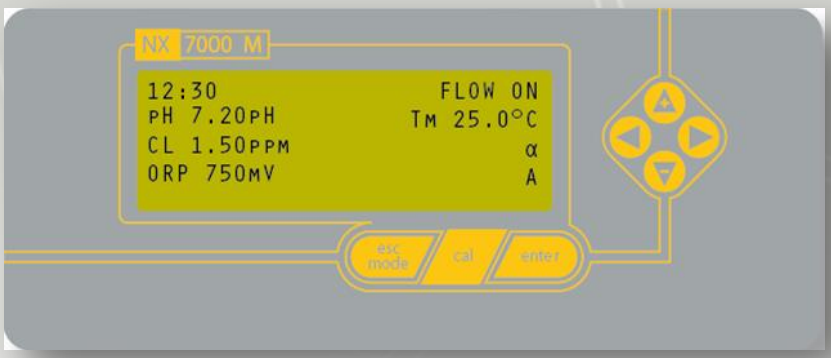
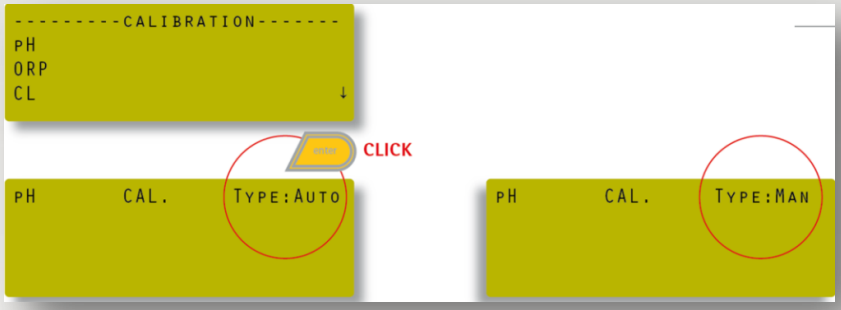


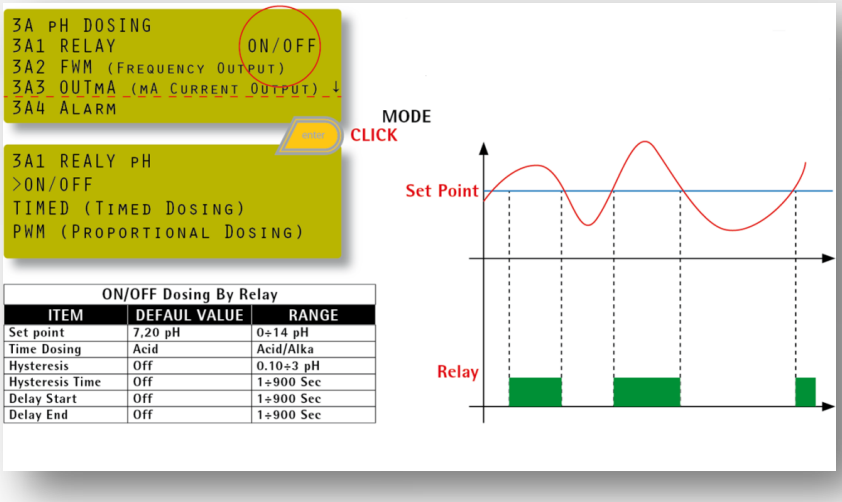
Control panel

Esc/mode
Cal
Enter
«Esc+Enter» programme
Keypad controls
Display (4 lines and 20 characters)



Ph calibration menu

AUTOMATIC CALIBRATION
It uses only standard buffer solutions
MANUAL CALIBRATION
It uses costumed buffer solutions
The control supplies information about the probe quality status



ON/OFF Dosing By Relay

ITEM	DEFAUL VALUE	RANGE
Set point	7,20 pH	0÷14 pH
Time Dosing	Acid	Acid/Alka
Hysteresis	Off	0.10÷3 pH
Hysteresis Time	Off	1÷900 Sec
Delay Start	Off	1÷900 Sec
Delay End	Off	1÷900 Sec

Set point setting menu

Through the relay menu it is possible to control the analog dosing pump
In the following example, the pump is dosing in relay mode

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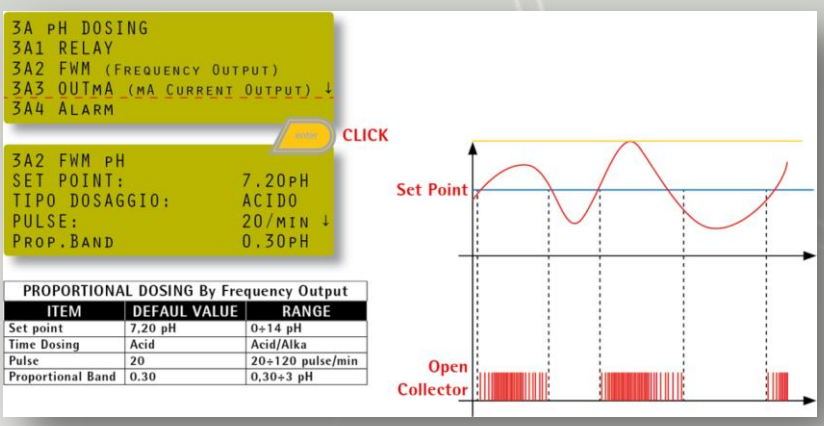
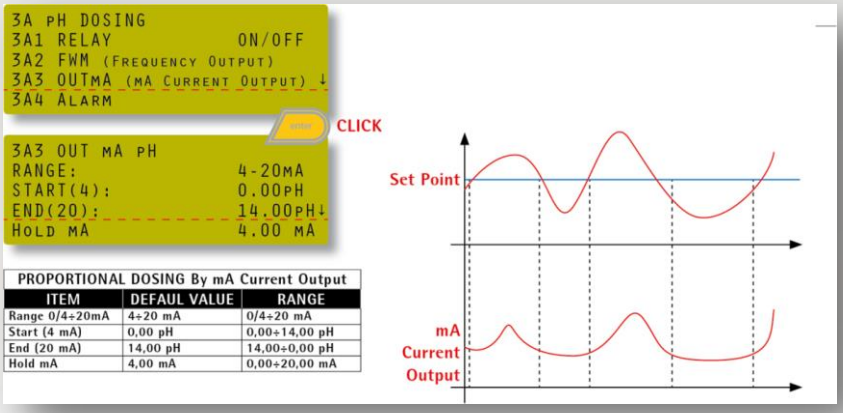


PROPORTIONAL DOSING By Frequency Output		
ITEM	DEFAUL VALUE	RANGE
Set point	7,20 pH	0÷14 pH
Time Dosing	Acid	Acid/Alka
Pulse	20	20÷120 pulse/min
Proportional Band	0.30	0,30÷3 pH

Set point setting menu (2)

The digital dosing pump can be controlled by the FWM «Frequency Signal Output» menu
In the following example, we can see a proportional dosing



PROPORTIONAL DOSING By mA Current Output		
ITEM	DEFAUL VALUE	RANGE
Range 0/4÷20mA	4÷20 mA	0/4÷20 mA
Start (4 mA)	0,00 pH	0,00÷14,00 pH
End (20 mA)	14,00 pH	14,00÷0,00 pH
Hold mA	4,00 mA	0,00÷20,00 mA

Set point setting menu (3)

Through the «mA Current Output» menu is possible to control the proportional dosing pump
In the following example, we can see a proportional dosing

Applications/Use

- Potable water: free chlorine measurement
- Osmosis systems: measurement and control
- Industrial and waste water treatment
- Swimming pool

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