

NANOXL

(4) RELAY CONTROLLER

The NanoTron “NANO” XL is the economical platform and exceptional choice for commercial and industrial water treatment systems.

MICROPROCESSOR CONTROL OF:

Conductivity and Feed Timers
(Pulse • 28-Day • Recycle • Post Bleed)



KEY FEATURES

- Compact Design
- Simple Step Through Menu
- NEMA 4X Style Enclosure
- Raised Dome Keypad
- Non-Volatile Memory
- Water Meter Totalizer
- mA Options
- Prewired Configuration
- 2 Year Warranty

PRODUCT OVERVIEW

The NANOXL is a compact, four relay microprocessor-based controller with many standard features. NANOXL models are available to control conductivity and three selectable feed timers, or four independently programmable feed timers.

The NANOXL platform provides an economical option for conductivity control of tower, boiler and other industrial water systems. Selectable feed timers and an optional 4-20 mA input provides a wide range of chemical feed options.

Build a Model NANOXL -

Step 1 choose a base model

Must select one.

Conductivity Control (3) Feed Timers	
B0	Boiler conductivity no probe
B2	BE-32C probe, 400°F and 250 PSI max
C	TE-4A Standard Tower probe; 3/4" PVC slip, 140°F and 150 PSI max
C0	Tower Conductivity no probe
C3	AH-4ASS 212°F and 250 PSI max, 1" MNPT
C5	DC-4ASS Tank mount, PVC 180°F max
C12	AL-4ASS pure water, 1/2" MNPT

(4) Selectable Feed Timers	F4
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Dual mA Input with Differential Control	D
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Step 2 whole unit options

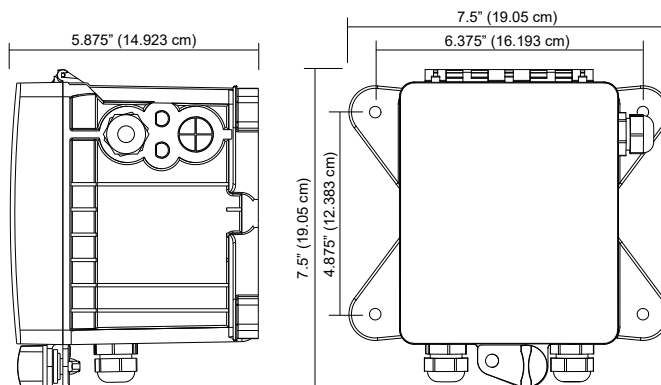
Must select from each in order.

Options List all desired	
A	100-240 VAC conduit connections
A3	Liquid tights only, 100-240 VAC
A7	Australian power cord (240 VAC)
A22	Operates off of incoming 24 VDC only with no cords and relays set for dry contact
E	Standard float style switch PVC assembly; 120 PSI (8.2 bar) @ 125°F (51.6°C)
N1	One mA input
N2	Two mA inputs
O1	One mA output
O2	Two mA outputs
V	Isolated 24 VDC power supply for powering mA inputs and outputs
Y	UL/CSA/CE testing approvals

Specifications

Electrical Input	95-240 VAC, 50/60 Hz
Relay Outputs	Individually fused and 2.5 amps Dry contact limited to 2.5 mA at 28 VDC
Display	LCD 1 x 16 backlit alphanumeric
Digital Inputs	Inputs have 10K Ω pullup to 3.3 VDC from open collector open drain output
Flow Totalizing Inputs	10K Ω pullup to 5 VDC max rate 2.5 KHz from open collector open drain output
mA Inputs	Optical isolation, 250 Ω / 5 VDC @ 20 mA Loop voltage to not exceed 30 VDC
mA Outputs	Non-isolated. 12 VDC max load = 400 Ω Isolated ext 24 VDC max load = 800 Ω
Enclosure	NEMA 4X style polycarbonate
Ambient Temp	0° to 125°F (-17° to 52°C)
Relative Humidity	0 to 100%
Shipping Weight	Approximately 6 lbs. (2.722 kg)
Dimensions	7.5" (19.05 cm) W&H x 5.875" (14.92 cm) D

Selectable Feed Timers	
Pulse	1-9999 counts, MM:SS run time
Recycle	HH:MM off cycle, MM:SS on cycle
28-Day	Weeks, Days, HH:MM run time
With Relay	HH:MM limit time
Post Relay	0-100%, HH:MM limit time



Conductivity Control Ranges (μ S/cm, mS/cm, PPM)	
Low	1-1,000 μ S tower; 1-700 boiler
Mid	10-10,000 μ S tower; 10-8,000 boiler
High	50-50,000 μ S tower; 50-38,000 boiler

Tower Probes	
Supplied in 3/4" quick release PVC tees. pH and ORP probe bodies are CPVC.	
TE-4A	150 psi (10.3 bar), 140°F (60°C) max
TPE-21	100 psi (6.8 bar), 140°F (60°C) max
TOE-21	100 psi (6.8 bar), 140°F (60°C) max
FS-OC (flow switch)	140 psi (9.6 bar), 140°F (60°C) max
AL-4ASS	100 psi (6.8 bar), 212°F (100°C) max
BE-32C	250 psi @ 400°F, SS/PEEK with 1" cross