

# NanoTron P/R

## Microprocessor Control of:

- pH
- ORP
- Feed Timer



## Key Features

- Compact Design
- Simple Step Through Menu
- NEMA 4X Style Enclosure
- Raised Dome Keypad
- Non-Volatile Memory
- 2 Year Warranty
- Prewired Configuration
- mA Output Included
- Pulse Output Included

## Application

The NanoTron-P/R provides compact microprocessor based pH or ORP control with many standard features and the flexibility to adapt to a variety of applications.

The NanoTron's simple step through menu provides user-defined configuration of set point relay activation with differential, high and low alarm.

The NanoTron platform provides an economical option for control of recirculating water systems. Selectable feed timer options include: pulse, recycle, 28-day, batch and reminder.

## Build a Model

**NANO-P** = pH control and 1 feed timer  
**NANO-R** = ORP control and 1 feed timer

### Options

Your unit may be supplied with one or more options listed at the end of the model number (i.e. **NANO-P-E**). This list represents our most popular options. For a complete list of options, consult the factory.

### Options

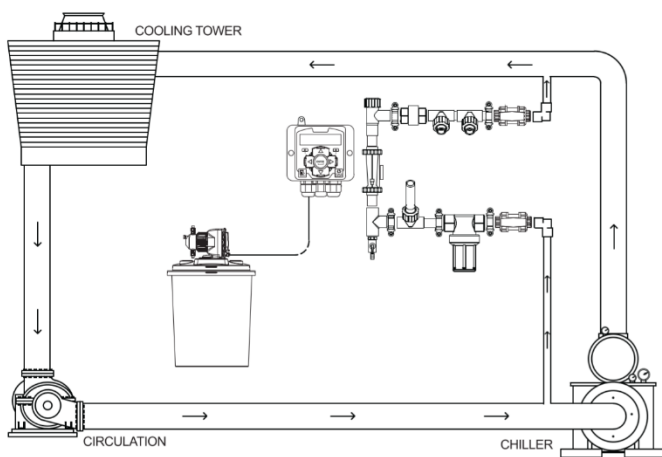
- A2** = Conduit with CE mark, 240VAC
- E** = Float style flow switch assembly; 8,2 Bar @ 52°C
- E6** = Flow switch connection only with cable
- K** = Prewired cable for mA output (Nano-N, M, P or R only) with external connector

All NanoTron units include:

- 2 relay outputs with “force on” mode
- 1 low drum alarm input
- 1 water meter input with accumulator and totalizer

Consult factory for other materials

- pH units can have second relay function as dual setpoint



**Typical Cooling Tower Installation**

## Specifications

### Electrical

- **Input:** 100-240 VAC, 50/60 Hz
- **Control:** Input VAC, 3 Amp / relay  
Prewired units are supplied with an 2,5 meter power cord and 20cm output receptacles.
- **Water Meter:** Dry contact  
Hall-effect; +5 VDC input
- **Analog Output:** 4-20mA with 24 VDC loop power supplied
- **Pulse Output:** 5 Volt square wave (Dry)

### Operational

- **Scale Ranges:**  

**pH:** 0-14  
**ORP:** 0-1000 mV
- **Display:** LCD 1 x 16 backlit alphanumeric
- **Timers included in all models:**  

**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  
**Utility:** Relay always ON & flow dependent

### Enclosure

Heavy duty NEMA 4X style high impact thermoplastic

### Environment

Ambient temperature: -17 to 52°C  
 Relative humidity: 0 to 100%

### Electrode

Standard tower electrode is supplied in a 3/4" Sch. 80 PVC female slip tee with quick release nut.

- **pH:** TPE-21 6,8 Bar / 60°C Max
- **ORP:** TOE-21 6,8 Bar / 60°C Max

**Shipping Weight:** Approximately 1 kg

### Dimensions:

Width: 10,16 cm  
 Height: 10,80 cm  
 Depth: 8.89 cm

