



Controllers / Instruments

pH Controllers

Ordering Code

NANO-PCD1

Description

Basic On/Off pH controller. Relay output for optional dosing pump or solenoid valve. (Does not include Pump, pH probe or solenoid valve)

Description

The NANO-PCD1 controller is suitable for pH control on cooling towers, swimming pools, fume scrubbers, or a whole host of simple pH dosing applications.

The controller measures pH via a pH Probe with BNC connection (not included), and maintains the system pH to the programmed setpoint. An optional dosing pump or solenoid valve (not included) should have a supply voltage of 240Vac to be switched via the control output of the pH controller.

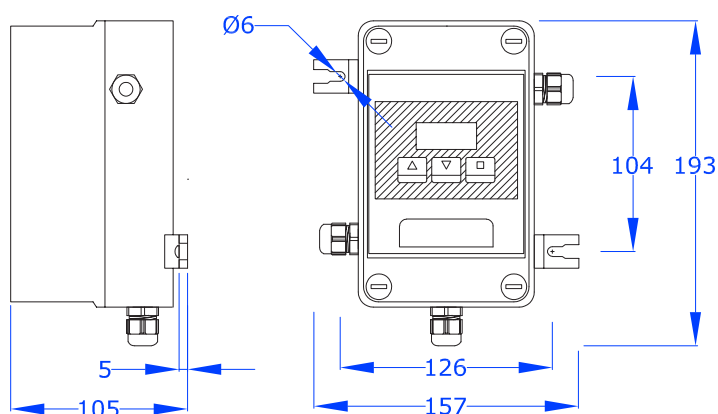


NANO-PCD1

Features & Benefits

- pH Control via dosing pump or solenoid valve, or pH Monitoring only
- Easy to program and calibrate
- A 3% fixed hysteresis is incorporated into the control software
- LCD simultaneously displays pH, Setpoint & Output Status
- Flow switch input to enable/disable output control relay
- Manual priming & testing via menu
- Weatherproof - can be mounted outside
- Mounted on 220mm x 170mm PVC backboard

Dimensional Drawing - Controller only



NANO-PCD1



Options & Accessories

Ordering Code	Description
IONODE IH40-01M	pH Probe, double junction, 0-12pH, fast response, easy-to-clean bulb with cleaning tool, (diameter = 12mm), 1 metre cable, BNC, 5 Bar max. Fully Submersible probe. Other cable lengths available upon request.
WA OPF10-NNN10	General purpose pH Sensor, single junction, 1/2 MNPT extra algecide, 10ft cable BNC, 6.9 Bar at 80 Deg C max. Submersible only with optional probe holder.
WA M-12-HPH	Double junction pH sensor, screw-in 3/4" MNPT industrial use, withdrawn bulb, concave end for high flow or for easy cleaning, 15ft cable BNC (I 1200, M-12-HpH). Submersible only with optional probe holder.
SP-SOL-1/2-S	SMC (direct acting) 15mm solenoid valve, 0-2.5 Bar, 1/2" BSP Ports, 10mm Orifice, 240VAC coil, Normally Closed, 60 Deg C.
SEKO PE-1.3-FP-T	Transaxle Peristaltic Pump 1.3 l/hr, 2.7 bar, 10W motor, IP65 w/ black EPDM Squeeze tube, incl. clear PVC suction tube, black PE discharge tube, mounting bracket, foot valve and spring loaded injection valve (PP, CE ball + C276 spring & Viton seals).
EMEC FCO 05 05 FP	Metering pump, wall mount, 5l/hr @ 5 bar, fixed stroke length, (FPM Viton seals - not suitable for Caustic), adjustable 10-100% speed w/ 1:10 divider

Note: Other pH probes, pumps and solenoid valves available upon request

Specifications

	NANO-PCD1 CONTROLLER
Control Function	
Measured Variable	pH
Range	0 - 14.00 pH
Resolution	0.01 pH
Accuracy	0.2% of Range
Repeatability & Drift	1% of Range
Control Type	ON/OFF (controlling dosing pump)
Hysteresis	Deadband: 3% (fixed)
Dosing Settings	
Control Output	Can be programmed to dose either Acid or Base
General	
Display	Dual Line LCD displays pH, Setpoint, Flow & Output Status
Keypad	UP, DOWN & ENTER pushbuttons
LED Indication	-
Manual Test	Output manually activated via menu
Flow Sensing	Flow input bridged unless ordered with optional flow switch
Calibration	Menu driven
Data Retention	100 years
Mounting	220mm (H) x 170mm (W) PVC Backboard
Electrical	
Power Supply	220-240 VAC, 50/60 Hz (110 VAC available on request)
Power Consumption	10W max (with no load on output)
Fuse	2A, 5x20mm (in-line with circuit and powered relay output)
Bleed Relay Output	Switched 240VAC output rated 8A/250VAC resistive (2A fused)