

DUAL pH/ORP CONTROLLER DPH-4



- D**ual purpose instrument to measure and control pH and ORP levels with one instrument.
- S**elect above/below control for pH or ORP.
- I**deal for swimming pools, processing plants or any installation with multiple pH/ORP applications.
- S**etup and calibrations are entered with easy to use encoders. Programmed parameters are not lost even if power is switched off for extended periods.
- P**recision 4-20mA output with complete isolation between each unit enables the connection to a central monitor or data logging system. mA calibration and signal range are performed through software and kept in non-volatile memory.
- V**arious timing modes and dosing relay lock-out times protect the installation from excess dosing.
- T**hermo plastic enclosure, transparent cover. Rated to IP 55 specifications.

THE RIGHT CHOICE



HOFMANN

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SPECIFICATIONS

Range:	0 to 14pH with 0.01pH resolution
Display:	3 1/2 digit LCD display
Indicators:	LED lights to indicate set point operation, pulse mode, flow and configuration status.
Calibration:	All calibration parameters are programmed into non-volatile memory.
Electrode:	BNC, external of housing.
Signal output:	4-20mA software configured over range 0-14pH. Screw terminals for fully isolated 4-20mA output located by removing subpanel.
Control range:	0pH to 14pH 0mV to +1000mV
Output relay:	240 VAC, 5 Amps max. resistive load. 3 terminals provide earth, neutral and switched active. 5A fuse protects instrument and relay output.
Pulsed output:	Selected through setup program. Pulse width adjusts automatically to suit dosing requirements. On time changes from continuous to minimum 5 seconds. Pulse interval increases / decreases to further fine-tune a dosing cycle.
Timers:	ON TIME: 1 minute to 2 hours OFF time 1 minute to 30 minutes
Timer Modes:	Looped mode will toggle the ON and OFF timers in a continuous loop. Terminal mode shuts off further dosing until manually attended.
Output relay:	240 VAC, 5 Amps max. resistive load. 3 terminals provide earth, neutral and active. 5A fuse protects instrument and relay output.
Alarm relay:	Potential free contacts.
Power:	240VAC 50Hz 7VA max.
Housing:	Thermoplastic with transparent lid. Rated IP 55
Dimensions:	(W)215mm x (H)185mm x (D)115mm.

FEATURES

The **DPH-4** instrument contains separate pH/ORP controllers facilitating an efficient installation.

The controller allows the operator to configure for various timing modes to prevent any abnormal levels of chemicals or overshooting of the set points. ON TIME is triggered every time the instrument calls for dosing. This time delay is adjustable from 1 minute to 2 hours in 1 minute increments. If ON TIME is exceeded without the set point relay deactivating, OFF TIME activates, locks out the relay for the set OFF TIME. Lockout time can be adjusted for 1-30 minutes. ON and OFF times are indicated with the timer LED pulsing in green or red.

In LOOPED mode ON TIME and OFF TIME toggle state if continuous dosing is called by a possible fault in the system.

More stringent protection can be applied with TERMINAL mode. If a dosing cycle time exceeds ON TIME and OFF TIME, dosing is shut down. The instrument can only be reset with a manual reset or optionally by switching off the power for approx. 10 sec. *(This allows for an installation with a remote reset.)*

The alarm configurations allow for the alarm relay to be activated if any of the described conditions exist in the LOOPED or TERMINAL mode.

The instrument requires permanent wiring of the supply voltage, metering pumps or solenoid valves.

The **DPH-4** with proper installation methods and the transparent cover in place, provides a reliable and waterproof installation.

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Please contact our Asia Pacific distributor:

H2O Rx

Phone: 0409 784 236 or 0421 795 353

info@h2orx.com.au

www.h2orx.com.au