Aquametrix 2250





Description

The 2250 series is built on the legacy of the Shark and 2200 controllers. Like its predecessors it is designed to be the most flexible, easy to use, and easy to see multi-parameter controller on the market.

Four Parameters

Select the parameter you wish to measure from the easy-to-use LCD menu on the inside front cover. Choose Conductivity, pH, ORP or Flow. The user interface was designed under the principle that the user should not need to read the manual.

Three Relays

The 2250 provides control of external devices using its three independent control relays. The third relay is provided to act as an alarm relay or a third process control relay. Each relay has both adjustable high and low on set-points and can be set for either a rising or falling process. Each relay has its own cycle timer, with adjustable on and off times. This feature enables tighter control of batch processes by eliminating chemical overshoot.

Two Analog Outputs

The 2250 provides three isolated, independent and scalable 4-20 mA outputs.

Each 4-20 mA output can be configured for

PID control. Most users will only use proportional control but the integral and derivative terms are there for advanced control.

Zero Cards

The 2250 comes complete. There are no extra costs associated with buying boards for different sensors, or buying components to achieve NEMA 4X. A mounting kit is included for surface and panel mounting. The enclosure outline makes panel-mount cutouts simple.

Enclosure

The 2250 is packaged in a rugged NEMA 4X polycarbonate enclosure making it ideally suited for indoor and outdoor heavy-duty applications.

One Bright Display

A backlit LCD display can be seen from a distance. The keypad allows easy entry of menu items and numeric values.

Calibration

No other controller offers the same combination of flexibility and ease for calibration. The process value is visible during calibration so the user knows when it has settled down. Calibration of pH can be with 2 or 3 points. Calibration of conductivity can take as many as 16 points so acids and bases can be measured through their conductivity.

All Calibration data can be recalled.

Multi-Parameter Controller

Features

- pH, ORP, conductivity & flow parameters available.
- Highly visible back-lit LCD display.
- Flexible and easy calibration, including multi-point conductivity calibration for acids and bases.
- Three control relays for rising or falling processes.
- Two 4-20 mA outputs with range scaling
- PID Control.
- Universal mounting hardware provided for surface, panel and pipe mounting.
- Compatible with AquaMetrix models P/R60 differential pH/ ORP sensors, 500 series combination style pH/OR sensors, MS/ AM series conductivity cells, and most pulsed flow sensors.

Applications

- Industrial process control, e.g. plating, food and beverage, chemical processing, pulp & paper, mining, food and beverage
- Municipal Water and wastewater treatment
- Industrial and Municipal Waste treatment and Neutralization
- Fume Scrubbers
- HVAC, cooling towers and boilers.



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Technical Data

		Probe Parameters	;	
	рН	ORP	Conductivity	Flow
Probe	6-Wire Differential or Combination	6-Wire Differential or Combination	2-electrode. Cell constants: 0.01, 0.1, 1.0, 10 and 50	Pulse output:, Paddle- wheel, Magnetic Flow
Temperature Elements	100, 1000 Ω RTD 300, 3000 Ω NTC	100, 1000 Ω RTD 300, 3000 Ω NTC	100, 1000 Ω RTD 300, 3000 Ω NTC	n/a
Sensor Input	-600 to +600 mV	-1999 to +1999 mV	Cond: 0 to 9999 Ω Temp: 0 to 9999 Ω	0 to 2000 Hz
Measurement Range	0 to 14 pH 0 to 100 °C	-1999 to +1999 mV	0.055 to 100,000 µS/cm (dependent on cell constant)	0 to 999 in units: I, cm³, ft³, m³, sec, min,hr
Temperature Compensation	Automatic 0 to 100 °C	n/a	Automatic or Manual	n/a
Calibration modes	pH: Automatic or Manual Temp: Manual	ORP: Manual Temp: Manual	Cond: Mamual Cell constant input Temp: Manual	K factor input
		Outputs		
	2250: 2 x 4-20 mA,		2250 TX: 4-20 mA (Process)	
Analog	1-Process, 2-Process/Temp. Optically isolated		Optically isolated	
	Scalable. Max Load - 800 Ω		Scalable. Max Load - 800 Ω	
Digital		RS485 for d	liagnostic use only	
Relays	2250: 3 x 5 A@ 120/240 VAC or 28 VDC NO or NC		2250 TX: None	
Relay Modes	2250: Rising/Falling. Cycle On/Off Options: Relay Delay, Overfeed Timer, Override		2250 TX: n/a	
		Ratings		
Ingress Protection	NEMA 4X			
Electrical			compliant and pending	
Max. Power Input	2250: 0.2 A @ 115 VAC or 15 W		2250 TX: 20 mA @ 24 VDC	
Temperature	-20 to 70 °C			
Humidity			Relative Humidity	
		Physical		
Mounting	Wall mour		rovidad DIN Bail mount with kit	Inrovidod
Mounting		t, panel mount with kit p	rovided. DIN Rail mount with kit	
Dimensions	F	t, panel mount with kit p ront cover: 5.5"x5.5" (14	cm x 14 cm). Depth: 5" (13 cm)	·)
_		t, panel mount with kit p ront cover: 5.5"x5.5" (14		·)