

Aquametrix AM-2252

Dual Input Controller



Description

The AM-2252 is the latest addition to the AquaMetrix controller line. This new dual channel controller will monitor and control up to 2 parameters simultaneously. pH, ORP, Conductivity, and flow are supported and we added two new input options; ISE and 4-20mA support.

Two Inputs

Now with two channels the AM-2252 offers inputs on both channels for pH, ORP, conductivity, and ISE, with flow available on channel one. Channel two can also accept a 4-20mA input which can work with any sensor outputting a 4-20mA signal.

Five Relays

The AM-2252 provides control of external devices using its five independent control and alarm relays. Each relay has adjustable high, low, and in range set-points, cycle timer with adjustable on and off times. This feature enables tighter control of batch processes by eliminating chemical overshoot. All relays can be activated by temperature or flow totalizer reading as well. The fifth relay can be common for multiple parameters.

Analog Outputs

The AM-2252 provides three isolated, independent and scalable 4-20 mA outputs.

All 4-20 mA outputs can be configured for PID control and can be set for process or temperature.

Zero Cards

The AM-2252 comes equipped with all components and can be set up in 10 minutes. There are no extra costs, i.e. buying boards for different sensors, or buying components to achieve NEMA 4X.

Enclosure

The AM-2252 is packaged in a rugged NEMA 4X polycarbonate enclosure making it ideally suited for indoor and outdoor applications. A mounting kit is included for surface and panel mounting. The enclosure outline makes panel-mount cutouts simple. Pipe mounting kits are available.

One Big Display

The AM-2252 features a backlit LCD display can be seen from a distance. The keypad allows easy input too 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 1, 2, or 3 points. Calibration of conductivity can take as many as 16 points so acids and bases can be measured through their conductivity.

Features

- pH, ORP, conductivity & ISE parameters available on both channels
- Input channel 2 can accept a 4-20mA sensor allowing for any number of parameters
- Flexible and easy calibration, including multi-point calibration for conductivity and ISE.
- New 1 point calibration for pH allowing for grab samples.
- Five control/alarm relays with temperature or flow totalizer control option
- Three 4-20mA output with range scaling and PID Control
- Temperature or flow totalizer output
- Universal mounting hardware for surface, and panel.
- Highly visible large backlit LCD display

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				
	pH/ORP/ISE	Conductivity	4-20mA	Flow
Sensor	6-Wire Differential or Combination	4-Wire contacting : Any cell constant between 0.01 and 100	Current sinking Current source	Pulse output: Paddle-wheel, Magmeter
Temperature Elements	100, 1000 Ω RTD 300, 3000 Ω NTC or none	100, 1000 Ω RTD 300, 3000 Ω NTC	N/A	n/a
Available Inputs	1 and 2	1 and 2	Only 2	Only 1
Measurement Range (Process)	pH 0 to 14 pH ORP -2000 to +2000 ISE 0-1000 ppm	0.055 to 500,000 μS/cm (Depending on the cell constant)	-9999 to +9999	0 to 999 in any units
Measurement Range (Temperature)	-20 to 120 °C	-20 to 120 °C	N/A	Flow Totalizer 0 to 999 in any units
Temperature Compensation	Automatic or none	Automatic or Manual -20 to 120 °C	Sensor specific	Display Flow Totalizer
Calibration modes	pH: Automatic or Manual 1, 2, or 3 points	Up to 16 points	2 points	K factor input
Outputs				
Analog	Three 4-20 mA outputs Optically isolated. (Max Load - 800 Ω) Scalable 4-20mA with PID (Process or Temperature)			
Relays	2 SPDT 8A @ 120 VAC or 30 VDC (resistive) 4A @ 120 VAC or 30 VDC (inductive) 2 SPST 5A @ 250 VAC or 30 VDC (resistive load) 2A @ 250 VAC or 30 VDC (inductive load)			
Relay Modes	Rising/Falling/In Range. Options: Relay Delay, Cycle, Overfeed Timer, Override All relays can be triggered by process temperature or flow totalizer.			
Ratings				
Ingress Protection	NEMA 4X			
Electrical	UL (US and Canada) and CE			
Max. Power Input	0.3 A @ 115 VAC or 20 W			
Temperature	-20 to 70 °C			
Humidity	0 to 90% Relative Humidity, non-condensing			
Physical				
Mounting	Wall mount, panel mount with kit provided. pipe mount with optional kit			
Dimensions	Front cover: 5.5"x5.5" (14 cm x 14 cm). Depth: 5" (13 cm)			
Power	120/240 VAC, 50 or 60 Hz			
Weight	2 lbs			
Protection	NEMA 4X			
Panel Cut-out	5.4" x 5.4" (138 x 138 mm) full DIN			