



Solutions to the Most Challenging Environments



Short Catalog

# AquaMetrix

## AM-2300 Multi-Input, Multi-Parameter Controller

- Inputs for four 4-20 mA sensors of any kind in any combination: pH, ORP, conductivity, dissolved O<sub>2</sub>, Chlorine, and more.
- Inputs for three frequency or pulse counters, including flow sensors
- Outputs of four relays programmable for any of the inputs
- Expand number of inputs, outputs or relays with an expansion slot
- Notifications by e-mail, text, and/or display for each input
- Data logging — downloadable from web
- 100% web enabled from set-up to data collection to remote viewing with password protection
- 1/4 DIN panel mounted enclosure with adapter for wall mounting



AM-2300



Web Interface



AM-2300-0-CS  
cellular package

Part Number	Description
AM-2300-0	Multi-input, Multi-parameter controller
AM-2300-0-CS	2300 in cellular communication package (incl. NEMA 4X cabinet)
2300 CARD 420 IN	Expansion card for 4 add'l 4-20 mA inputs
2300CARD 420 OUT	Expansion card for 4 x 4-20 mA outputs
2300 CARD PULSE	Expansion card for 4 add'l relays & 3 pulse inputs
2300 CARD RELAY	Expansion card for 6 add'l relays

# AquaMetrix

## AM-2250 Multi-Input Controller - **NEW**

- pH, ORP, conductivity & flow parameters available.
- Highly visible large 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 and temperature.
- PID Control.
- Universal mounting hardware provided for surface, panel mounting. Optional pipe mounting
- Compatible with AquaMetrix 60-series differential pH/ORP sensors, 500-series combination pH/OR sensors, AS/AM-series conductivity cells, and most pulsed flow sensors.



AM-2250

## AM-2250TX Multi-Input Transmitter - **NEW**

- Same footprint as AM-2250 (1 DIN)
- pH, ORP, conductivity & flow parameters available.
- 24 VDC (loop powered) version. No relays or 120/240 VAC power supply. Large display.
- Universal mounting hardware provided for surface, panel mounting. Optional pipe and DIN rail mounting
- 4-20 mA output

The AM-2250 replaces the Shark-120 and the AM-2250TX replaces the Shark-TX. The new family of controllers incorporates all features of the old ones and adds many new exciting features.



Part Number	Description
AM-2250	120/240 VAC Power with Mounting Kit.
AM-2250TX	24 VDC Power with Mounting Kit
2250-DIN-MNT	DIN Rail Mounting Bracket for 2250TX
2250-PIPE-MNT	Pipe Mounting Bracket for AM-2250/AM-2250TX

# AquaMetrix

## 60 and 65 Series Differential pH or ORP Sensors



- Differential measurement technology
- Immune to ground loops
- Replaceable salt bridge
- Replaceable reference solution
- Low Cost of ownership
- Field-proven
- Encapsulated preamplifier
- Transmits up to 3000 ft.
- 4-20 mA two-wire blind transmitter version available (65-series)
- Dual 4-20mA output (pH + temperature or ORP + temperature)

Part Number	Description
P60R8	1.5" MNPT Fixed Insertion pH Sensor
R60R8	1.5" MNPT Fixed Insertion ORP Sensor
P60C5	1" MNPT Fixed Insertion pH Sensor
R60C5	1" MNPT Fixed Insertion ORP Sensor
P60C6	1.25" Variable Insertion pH Sensor
P60C7	Hot-Tap Insertion pH Sensor
P65R8	1.5" MNPT Fixed Insertion pH Sensor with 4-20 output
P65C5	1" MNPT Fixed Insertion pH Sensor with 4-20 output
<b>NEW</b> PT65R8	1.5" MNPT Fixed Insertion pH + Temp Sensor with two 4-20 outputs
<b>NEW</b> RT65R8	1.5" MNPT Fixed Insertion ORP + Sensor with two 4-20 outputs

## 500 Series Differential pH/ORP Sensors

- Industrial grade combination probes at low cost
- Fixed Insertion or variable insertion
- Universal style: Flow-through and submersion.
- Automatic temperature compensation is standard

Part Number	Description
P575T1	1" MNPT Fixed Insertion pH sensor
P585T1	Variable Insertion pH sensor with 3/4" fitting
R575T1	1" MNPT Fixed Insertion ORP sensor
R585T1	Variable Insertion ORP sensor with 3/4" fitting



# AquaMetrix

## AS Series CPVC Conductivity Sensors

- 316 SS or Graphite Electrodes
- Automatic Temperature Compensation
- Adjustable Insertion Length
- Wide range of cell constants
- Automatic temperature compensation

Part Number	Description
ASM001P1	Cell constant k = 0.01, 316 SS Electrode
ASM01P1	Cell constant k = 0.1, 316 SS Electrode
ASM1P1	Cell constant k = 1, 316 SS Electrode
ASG10P1	Cell constant k = 10, Graphite Electrode
ASG50P1	Cell constant k = 50, Graphite Electrode



ASG1P1



ASM1S1

## AM Series 316 Stainless Steel Conductivity Sensors

- O-ring seals for high on-stream reliability
- Reduced cleaning requirements
- Wide range of cell constants
- Automatic Temperature Compensation
- Gland fitting allows removal and replacement without tools

Part Number	Description
AM341K1	3/4" OD sensor, Cell Constant k = 1, Kynar fitting
AM121S1	1/2" OD sensor, Cell Constant k = 1, 316 SS fitting
AMB341S1	3/4" OD sensor for boiler applications, Cell Constant k = 1, 316SS fixed insertion



AM341S1



AMB341S1

## ES Series Toroidal Conductivity Sensors

- Low Maintenance - Reduced cleaning requirements
- No electrode corrosion - Toroid is fully encapsulated
- Automatic temperature compensation

Part Number	Description
ES1*	Toroidal Sensor with 3/4" MNPT
ES5C1	Toroidal Sensor w 1.5" MNPT, 0-10mS/cm
ES5C2	Toroidal Sensor w 3/4" MNPT, 0-100mS/cm
ES5C3	Toroidal Sensor w 1.5" MNPT, 0-1,000mS/cm

The ES5 sensors connects to AquaMetrix 2300 and PLC

\*The ES-1 connects only with GLI (E33, E53, E63, PRO 3), Knick (2401 Condi, 2402 Condi), Uniloc 1181T, Yokogawa (ISC202, ISC402), Mettler-Toledo controllers.



ES5C3



ES1

# AquaMetrix

## **AM-ODO** Optical Dissolved Oxygen Direct Output Sensor

Connects to AquaMetrix AM-2300 and PLC

- No moving parts and very rugged
- Instantly stable values
- Calibrated in the factory with calibration data stored in sensor
- Direct output via 4-20 mA or Modbus.
- Only 1 replaceable part - sensor cap.
- Economically Priced



Part Number	Description
AM-ODO	Optical DO Probe
AM-ODO-CAP	Replacement Cap

## **AM-USTMINI** Ultrasonic Level Sensors

Connects to AquaMetrix AM-2300 and PLC

- Non-contact ultrasonic level measurement
- Most compact level transducer on the market
- 8° beam angle
- 4-20 mA and Modbus RTU outputs
- Diagnostic display of waveform
- Software control of Modbus signal—sampling rate, signal averaging, set-point hysteresis.



Part Number	Description
AM-USTMINI7	Measurement range up to 7 ft
AM-USTMINI13	Measurement range up to 13 ft
AM-USTMINI20	Measurement range up to 20 ft

## **AM-CHL** Chlorine Direct Output Sensor

Connects to AquaMetrix AM-2300 and PLC

- Loop powered 4-20 mA output
- Compact design
- Automatic temperature compensation
- Optional flow cell and flow meter insures constant pressure for accurate measurement
- Inexpensive replaceable membrane and electrolyte



Part Number	Description
AM-CHL	Free Chlorine Sensor
AM-CHL-FC	Sensor Flow Cell
AM-CHL-FM	Variable Area Flow Meter
AM-CHL-RE	Replacement Electrolyte
AM-CHL-MC	Replacement Membrane Cap

# AquaMetrix

## AM-TBR Turbidimeter

Connects to AquaMetrix AM-2300 and PLC

- Range: 0-10 NTU, 0-100 NTU or 0-1,000 NTU
- Modular construction allows easy cleaning and servicing.
- EPA 180.1—Krypton filled white light with 7 year lamp lifetime
- Alternate infrared light source to meet ISO 7027 with 7 year lifetime
- Small sample volume to minimize calibration standard cost
- Removable sample cuvettes for easy cleaning and calibrating
- Bubble rejection system
- Automatic ultrasonic optical cleaning system
- Optics isolated from sample to reduce false low readings
- Selectable 4-20 mA or RS 485-Modbus
- Two alarm relay



Part Number	Description
AM-TBR-WL-10	Turbidimeter with white light source, 0-10 NTU
AM-TBR-WL-100UC	Turbidimeter with white light source, 0-100 NTU and ultrasonic autoclean
AM-TBR-WL-1000	Turbidimeter with white light source, 0 -1,000 NTU
AM-TBR-IR-10	Turbidimeter with IR light source, 0 -10 NTU
AM-TBR-IR-10UC	Turbidimeter with IR light source, 0 -10 NTU and ultrasonic autoclean
AM-TBR-IR-1000	Turbidimeter with IR light source, 0 -1,000 NTU

## Aquametrix 4-20 mA Collection

Sensors that Connect to the AM-2300 Controller

### 4-20 mA Sensors

Part Number	Description
P65R8	1.5" MNPT Fixed Insertion pH Sensor
R65R8	1.5" MNPT Fixed Insertion ORP Sensor
ES5	Toroidal Conductivity Sensor with 1.5" MNPT
AM-ODO	Optical Dissolved Oxygen Sensor
AM-CHL	Free Chlorine 2-Electrode Sensor
AM-USTMINI	Ultrasonic Level Transducer

### Pulsed output (Flow) Sensors

Seametrics Part Number	Description
IP810/IP820	Paddle Wheel Flow Meter, Fixed Insertion
IP110/IP210	Paddle Wheel Flow Meter, Variable Insertion
IP150/250	Paddle Wheel Flow Meter, Hot-Tap Insertion
EX810/EX820/EX830	Magnetic Flow Meter, Fixed Insertion
EX110/EX210	Magnetic Flow Meter, Variable Insertion
EX150/EX250	Magnetic Flow Meter, Hot-Tap Insertion

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