



Solutions for the Most Challenging Environments



Short Catalog



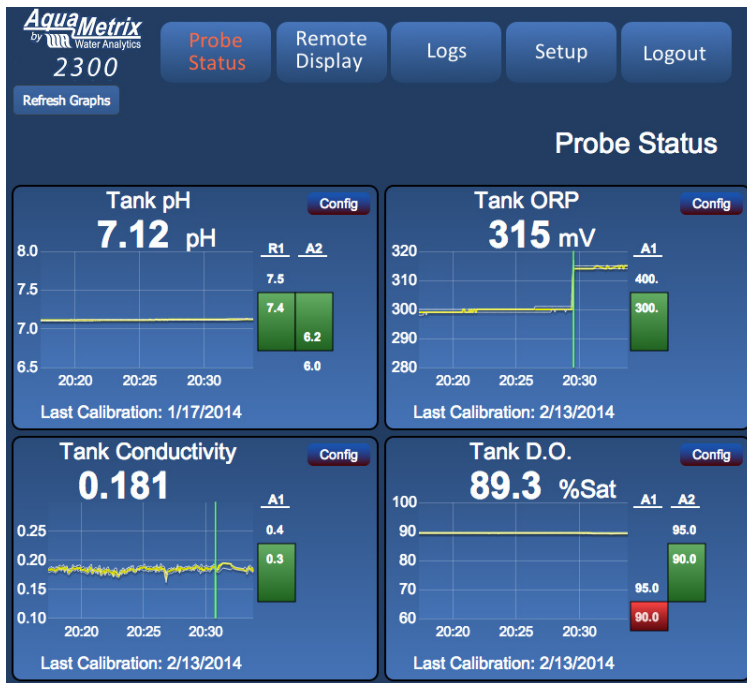
# AquaMetrix

## 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



Part Number	Description
AM-2300-0	4X Analog and 3X Digital Inputs with 4X Relays
AM-2300-1	8X Analog and 3X Digital Inputs with 4X Relays
AM-2300-2	4X Analog and 3X Digital Inputs with 4X Relays and 4X Analog Outputs
AM-2300-3	4X Analog and 6X Digital Inputs with 8X Relays
AM-2300-4	4X Analog and 3X Digital Inputs with 10x Relays
AM-2300-5	8X Analog Inputs and 6X Relays
AM-2300-6	4X Analog and 7X Digital Inputs with 6X Relays
AM-2300-8	8X Analog Inputs and 12X Relays

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NEW

## AM-2252 Multi-Parameter Controller

- 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



AM-2252

## AM-2250 Multi-Parameter Controller

- 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/ORP sensors, AS/AM-series conductivity cells, and most pulsed flow sensors



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## AM-2251 Multi-Parameter Controller

- pH, ORP, Toroidal conductivity & D.O. 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/ORP sensors, AM-ES1 wide range toroidal sensor, AM-CDO clark cell dissolved oxygen sensor and the AM-P91 dissolved oxygen sensor



AM-2251

## AM-2250TX Multi-Parameter Transmitter

- Same footprint as AM-2250 (Panel cutout is 5.4" x 5.4")
- pH, ORP, conductivity & flow parameters available
- Compatible with AquaMetrix 60-series differential pH/ORP sensors, 500-series combination pH/ORP sensors, AS/AM-series conductivity cells, and most pulsed flow sensors
- Universal mounting hardware provided for surface, panel mounting. Optional pipe and DIN rail mounting
- 24 VDC: loop powered or externally powered
- No relays
- Large LCD display
- 4-20 mA output
- PID control

Part Number	Description
AM-2250	120/240 VAC Power with Mounting Kit.
AM-2251	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

## 60 and 65 Series Differential pH or ORP Sensors



P60R8



P60R5

- Differential measurement technology
- Immune to ground loops
- Replaceable salt bridge
- Replaceable reference solution
- Low cost of ownership
- Field-proven
- Encapsulated preamplifier (60-series)
- Encapsulated 4-20 mA two-wire blind transmitter (65-series)
- Dual 4-20mA output (pH + temperature or ORP + temperature) (PT and RT sensors)
- Transmits up to 3000 ft

Part Number	Description
P60R8	1.5" MNPT Fixed Insertion pH Sensor
R60R8	1.5" MNPT Fixed Insertion ORP Sensor
P60R5	1" MNPT Fixed Insertion pH Sensor
R60R5	1" MNPT Fixed Insertion ORP Sensor
AM-CFT-R5	Compression fitting to convert R5 sensor to variable insertion
P60C7	Hot-Tap Insertion pH Sensor
P65R8	1.5" MNPT Fixed Insertion pH Sensor with 4-20 output
P65R5	1" MNPT Fixed Insertion pH Sensor with 4-20 output
PT65R8	1.5" MNPT Fixed Insertion pH + Temperature Sensor with two isolated 4-20 outputs
RT65R8	1.5" MNPT Fixed Insertion ORP + Temperature Sensor with two isolated 4-20 outputs



P585T1



R575T1

## 500 Series Combination pH or ORP Sensors

- Industrial grade combination probes at low cost
- Double junction electrode for longer life
- Automatic temperature compensation is standard
- Fixed Insertion (575-series) or variable insertion (585-series)
- Universal style: flow-through or submersion

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

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## AS Series CPVC Conductivity Sensors

- 4-20 mA Output or Raw Output
- Automatic Temperature Compensation
- Adjustable Insertion Length
- Wide range of cell constants

Part Number	Description
ASM01P1	Low Range Conductivity, Raw Output
ASM1P1	Standard Range Conductivity, Raw Output
ASM01TX	Low Range Conductivity, 4-20 mA Output
ASM1TX	Standard Range Conductivity, 4-20 mA Output



ASM1TX



ASM01P1

## AM Series 316 Stainless Steel Conductivity Sensors

- 316 SS electrodes
- 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



AMB341S1

## ES Series Toroidal Conductivity Sensors

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

Part Number	Description
AM-ES1	Wide Range Toroidal Sensor
ES-5-C-1	Toroidal Sensor w 1.5" MNPT, 0-10mS/cm
ES-5-C-2	Toroidal Sensor w 1.5" MNPT, 0-100mS/cm
ES-5-C-3	Toroidal Sensor w 1.5" MNPT, 0-1,000mS/cm



ES5C3



AM-ES1

The ES5 sensors connects to AquaMetrix 2300 and PLC  
The AM-ES1 Connects with the AM-2251 Controller

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

Connects to AquaMetrix AM-2300 and PLC

- Dual output: % saturation and concentration (mg/l)
- Direct output via 4-20 mA
- Instantly stable values
- Calibrated in the factory with calibration data stored in sensor
- Only 1 replaceable part - sensor cap.
- Economically priced



AM-ODO

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

## **AM-CDO** Clark Cell Dissolved Oxygen

Connects to AquaMetrix AM-2251 and 2200D

- Polarographic (Clark) style measurement
- Wide dynamic range 0-250% saturation
- Transmission up to 2000 ft.
- Replaces AM-P91 Sensor



AM-CDO

Part Number	Description
AM-CDO-015	Amperometric Dissolved Oxygen Sensor

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

Connects to AquaMetrix AM-2300 and PLC

- 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



AM-FCL

Part Number	Description
AM-FCL-05	Free Chlorine Sensor, 5ppm
AM-FCL-FC	Sensor Flow Cell
AM-FCL-FM	Variable Area Flow Meter
AM-FCL-MK	Accessories kit



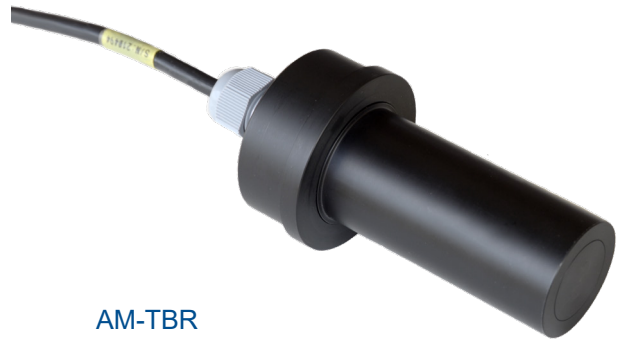
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## AM-TBR Turbidity Sensor

Connects to AquaMetrix AM-2300 and PLC

- Nephelometric measurement
- Waste water and clean water options available
- 0-4, 0-40, and 0-400 NTU ranges available
- 0-100, 0-1000, and 0-10000 FTU ranges available
- Submersible and In-Line options available
- Loop powered direct 4-20mA output (IR VERSION)
- Optional constant pressure flow cell
- Automatic temperature compensation

White light source also available



AM-TBR

Part Number	Description
AM-TBR-RLN4	Infrared lightsource, In-line mounting, 4NTU range
AM-TBR-RSN4	Infrared lightsource, Submersible, 4NTU range
AM-TBR-RSF100	Infrared lightsource, Submersible, 100FTU range
AM-TBR-FC40	Flow Cell for 4-40 NTU sensor
AM-TBR-TEE	2" Union Tee for in-line mounting

## IP810 Seametrics Paddle Wheel Flow Sensor

Connects to AquaMetrix AM-2300 and AM-2250



IP810

Additional mounting options and sensor materials available

- Pulsed output works with AM-2250 controller
- For pipe diameters of 3/8" to 48"
- IP sensor with Kynar impeller, ruby jewel bearing and tungsten carbide shaft

## EX810 Seametrics Magmeter Flow Sensor

Connects to AquaMetrix AM-2300 and AM-2250



EX810

Additional mounting options and sensor materials available

- Pulsed output works with AM-2250 controller
- For pipe diameters of 3/8" to 48"
- EX sensor with no moving parts and superior low-flow performance

Part Number	Description	Part Number	Description
IP80PTP-075	Polyurathane Paddle Wheel with 3/4" Tee	EX810PTP-075	Polyurathane magmeter with 3/4" Tee
IP80PTP-100	Polyurathane Paddle Wheel with 1" Tee	EX810PTP-100	Polyurathane magmeter with 1" Tee
IP80PTP-150	Polyurathane Paddle Wheel with 1.5" Tee	EX810PTP-150	Polyurathane magmeter with 1.5" Tee
IP80PTP-200	Polyurathane Paddle Wheel with 2" Tee	EX810PTP-200	Polyurathane magmeter with 2" Tee

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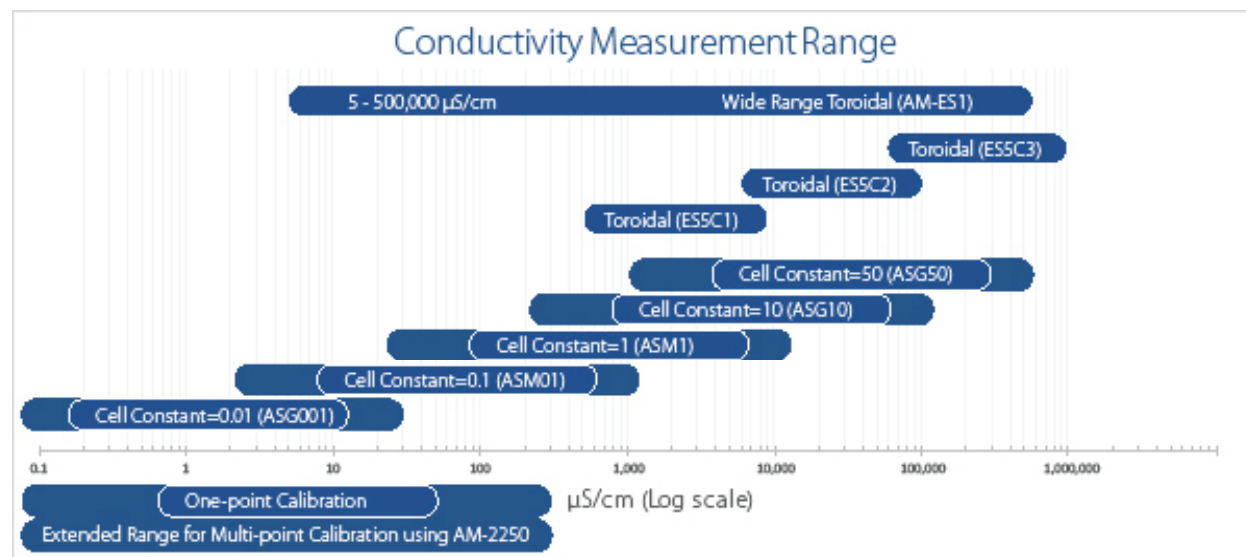
## Sensor Applications

Application	pH	ORP	Conductivity	D.O.	Level	Flow	Chlorine
Wastewater	√	√		√	√	√	
Filtration	√	√	√			√	√
HVAC	√		√			√	
Pump/Lift Station					√	√	
Tank Monitoring					√	√	
Aquaculture	√		√	√	√	√	√
Food & Beverage	√	√	√			√	√

## Controller Compatibility Chart

Sensor Part#	AM-2250	AM-2250TX	AM-2251	AM-2252 ch1	AM-2252 ch2	AM-2300
60 Series Sensors	√	√	√	√	√	
65 Series Sensors					√	√
500 Series Sensors	√	√	√	√	√	
AS Series Sensors	√	√		√	√	
AM Series Sensors	√	√		√	√	
ES-5 Toroidal Sensors					√	√
AM-ES1 Toroidal Sensor			√			
AM-ODO Sensors					√	√
AM-CDO Sensors			√			
AM-FCL Chlorine Sensor					√	√
AM-TBR Turbidity Sensor					√	√
Seametrics Flow Sensors	√	√		√		√

## Conductivity Cell Constant Chart





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