



## Features

- pH, ORP, conductivity & flow parameters available
- Highly visible large LCD display
- Flexible and easy calibration, including multi-point conductivity calibration for acids and bases
- 4-20mA process output with range scaling and PID Control
- Universal mounting hardware for surface, panel and pipe mounting
- Compatible with AquaMetrix models 60-series differential pH/ORP sensors, 500-series combination style pH/OR sensors, AS/AM-series conductivity sensors, and most pulsed flow sensors
- 16-32 vdc loop powered

## Description

The AM-2250TX series is built on the legacy of the SharkTX transmitter. Like its predecessor it is designed to be the most flexible, easy to use, and easy to see multi-parameter transmitter on the market.

### Four Parameters

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

### Analog Outputs

The AM-2250TX is a loop powered device. It provides one isolated, scalable 4-20 mA output.

The 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 AM-2250TX comes complete. There are no extra costs associated with buying boards for different sensors, or buying components to achieve NEMA 4X.

### Enclosure

The AM-2250TX is packaged in a rugged NEMA 4X polycarbonate enclosure making it ideally suited for indoor and outdoor heavy-duty applications. A mounting kit is included for surface and panel mounting. The enclosure outline makes panel-mount cutouts simple. Pipe and DIN-rail mounting kits are available.

### One Big Display

The AM-2250TX features a large LCD display that 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 is stored.

## 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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# AM-2250TX Transmitter for pH, ORP, Conductivity, Flow

## Technical Data

| Probe Parameters                |                                                                                                  |                                            |                                                            |                                         |
|---------------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------|------------------------------------------------------------|-----------------------------------------|
|                                 | pH                                                                                               | ORP                                        | Conductivity                                               | Flow                                    |
| Sensor                          | 6-Wire Differential or Combination                                                               | 6-Wire Differential or Combination         | 4-Wire contacting : Any cell constant between 0.01 and 100 | Pulse output: Paddle-wheel, Magmeter    |
| Temperature Elements            | 100, 1000 Ω RTD<br>300, 3000 Ω NTC or none                                                       | 100, 1000 Ω RTD<br>300, 3000 Ω NTC or none | 100, 1000 Ω RTD<br>300, 3000 Ω NTC                         | n/a                                     |
| Sensor Input                    | -600 to +600 mV                                                                                  | -999 to +999 mV                            | 0 to 9999 Ω                                                | 0 to 2000 Hz                            |
| Measurement Range (Process)     | 0 to 14 pH                                                                                       | -999 to +999 mV                            | 0.055 to 500,000 μS/cm (Depending on the cell constant)    | 0 to 999 in any units                   |
| Measurement Range (Temperature) | -20 to 120 °C                                                                                    | -20 to 120 °C                              | -20 to 120 °C                                              | Flow Totalizer<br>0 to 999 in any units |
| Temperature Compensation        | Automatic or none                                                                                | Display temperature                        | Automatic or Manual<br>-20 to 120 °C                       | Display Flow Totalizer                  |
| Calibration modes               | pH: Automatic or Manual<br>2 or 3 points                                                         | ORP: Manual<br>1 point                     | Up to 16 points                                            | K factor input                          |
| Outputs                         |                                                                                                  |                                            |                                                            |                                         |
| Analog                          | One 4-20 mA output<br>Scalable 4-20mA with PID (Process)<br>Optically isolated. Max Load - 800 Ω |                                            |                                                            |                                         |
| Relays                          | None                                                                                             |                                            |                                                            |                                         |
| Relay Modes                     | N/A                                                                                              |                                            |                                                            |                                         |
| Ratings                         |                                                                                                  |                                            |                                                            |                                         |
| Ingress Protection              | NEMA 4X                                                                                          |                                            |                                                            |                                         |
| Electrical                      | ETL (US and Canada) and CE pending                                                               |                                            |                                                            |                                         |
| Max. Power Input                | 20 mA @ 24 VDC                                                                                   |                                            |                                                            |                                         |
| Temperature                     | -20 to 70 °C                                                                                     |                                            |                                                            |                                         |
| Humidity                        | 0 to 90% Relative Humidity, non-condensing                                                       |                                            |                                                            |                                         |
| Physical                        |                                                                                                  |                                            |                                                            |                                         |
| Mounting                        | Wall mount, panel mount with kit provided. DIN rail and pipe mount with optional kit             |                                            |                                                            |                                         |
| Dimensions                      | Front cover: 5.5"x5.5" (14 cm x 14 cm). Depth: 5" (13 cm)                                        |                                            |                                                            |                                         |
| Power                           | 16-32 VDC (24VDC nominal)                                                                        |                                            |                                                            |                                         |
| Weight                          | 2 lbs                                                                                            |                                            |                                                            |                                         |
| Protection                      | NEMA 4X                                                                                          |                                            |                                                            |                                         |
| Panel Cut-out                   | 5.4" x 5.4" (138 x 138 mm) full DIN                                                              |                                            |                                                            |                                         |