

# DATASHEET

## MODEL OZ80 RESIDUAL OZONE ANALYZER



## FEATURES

- **Panel Mounted System**, Easy Installation
- **Plumb and Play Design**, Ready to Use
- **Additional pH Measurement**, Provides convenient sample port
- **Automatic Flow Control**, Eliminates Pressure Regulators and Rotameters
- **T80 Transmitter Capability**, Dual Measurements, 24VDC or 110/220 VAC Power, Graphical Plots



## SPECIFICATIONS

### *SENSORS AND FLOW TRAIN*

#### **Ozone Sensor:**

Digital protocol, Amperometric, Gold cathode/Silver-Silver bromide anode, PTFE membrane

#### **pH Sensor:**

Digital S80 protocol, 316L stainless steel body with replaceable electrode cartridge

#### **Measurement Range:**

Ozone:            0.00 to 20 ppm (High Range)  
                      0.00 to 2.00 ppm (Low Range)

pH: 1 to 11 pH

#### **Operating Temperature:**

0° C to 50° C (32° F to 122° F)

#### **Min/Max Flow:**

38 L/hr. to 300 L/hr. (10 gal/hr. to 80 gal/hr.)

#### **Wetted Materials:**

PVC, PP, PVDF, PTFE, Glass, 316 SS

#### **Accuracy:**

±2% of range, Dependent on calibration, Resolution 1.0 ppb

#### **Response Time:**

T90 in 2 minutes

#### **Electrolyte Life:**

Up to 12 months



### *OZ80 ANALYZER*

#### **Measurements:**

Ozone: 0.00 ppb to 2.00 or 20.00 ppm (color inverted screen above 20.00 ppm to the limit of the sensor)

pH: 0.00 to 14.00 pH, Resolution 0.01 pH, Accuracy 0.05 pH, Temperature ± 0.2°C

#### **Display:**

128 x 64 pixels (2.75" x 1.5") LCD, Black on Grey background, Blue on White background with LED backlight on 100-250 VAC and 24 VDC powered instruments, Display language: English

**Outputs:**

Configurable 4-20 mA outputs, sourcing, 600 ohm loop maximum

(1) 4-20 mA for Ozone set to Sensors Range

(1) 4-20 mA for pH (Optional) set for 0-14 pH, or Temperature

Modbus RTU (standard)

**Alarm Relay Ratings:**

Three (3) SPDT, 1 form C, 250 VAC, 10 Amp resistive maximum, relays, user configurable as Hi/Lo alarms with expiration timer, Periodic Timers or Fault alarms

**Input Power**

Code -1        24 VDC (18-36 VDC @ 250 mW minimum)

Code -2        100-240 VAC, 50/60 Hz, 4W, protected with 250V, 1A, Slow Blow fuse

**Enclosure:**

Beige Polycarbonate, IP65, weatherproof, ½ DIN, (L x W x D) 5.7" X 5.7" X 3.5" (14.4cm X 14.4cm X 9.0cm)

**Environmental Conditions:**

Outdoor use (IP65)

Ambient Temperature                    -20°C - 70°C (24 VDC Models)  
   -20°C - 60°C (100-240 VAC Models)

Storage Temperature                    -30°C - 85°C

Relative Humidity                        0 – 80%, up to 31°C  
   Decreasing linearly to 50% RH a 40°C

Altitude                                    Up to 2000 m (6500 ft)

Mains Supply Voltage                    Fluctuations up to ±10% of the nominal voltage  
   Transient over voltages: CAT II  
   Pollution Degree: 2