



RESIDUAL OZONE ANALYZER HydroACT

DESCRIPTION

The HydroACT Residual Ozone Analyzer utilizes the very latest and best ozone sensors available in the world today. The membrane covered sensor is insensitive to changing pH and interference from other oxidants, uses no reagents, is extremely stable, and has a reduced maintenance requirement compared to most other Ozone sensors. HydroACT offers a versatile solution to your monitoring needs with the flexibility to accept additional sensors, as well as offering expandable I/O and PID control loops.

STANDARD FEATURES

- Includes analyzer, ozone sensor, flow cell, 1 analog output, 1 year consumables
- No moving parts, no reagents
- Event logging

OPTIONAL FEATURES

- Expandable sensor inputs and I/O
- Color display and data-logging with microSD card download
- Modbus or PROFIBUS communications
- Chemical feed control capability (e.g. PID)

BENEFITS

- Stable and reliable - excellent process control
- Suitable for all potable, process and salt waters
- No reagents or moving parts
- Up to 6 months between maintenance
- Up to 3 months between calibration
- Resistant to detergents in the water

OZONE DOSING CONTROL FOR:

Water Treatment

Cooling Towers

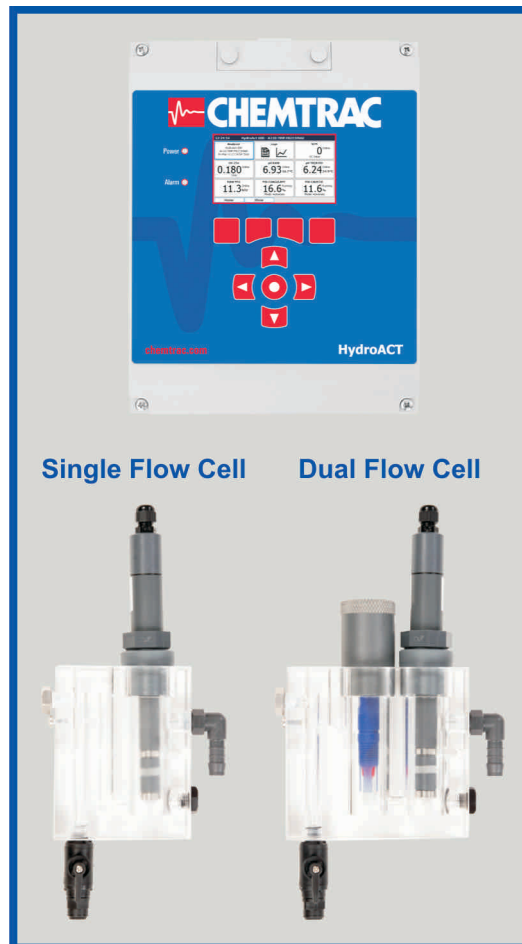
Hospitals

Laundry

Food Preparation

Secondary Ozonation

Remote Sites



Residual Ozone

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GENERAL SPECIFICATIONS

HydroACT Residual Ozone Analyzer

The HydroACT Ozone Analyzer standard configuration includes version HA2 analyzer, 1 sensor, 1 analog output, and 1 year consumables. Optional features include relays, digital inputs, digital comms, expanded number of sensor inputs and analog outputs, color display, and data download capability. Maximum I/O capabilities and certain features are specific to the different versions of HydroACT as detailed below.

| HydroACT Features | HA2 | HA4 | HA8 |
|-----------------------------|----------|----------|----------|
| Sensor limit* | 2 | 4 | 8 |
| Analog output limit* | 2 | 4 | 8 |
| Relay limit* | 4 | 8 | 16 |
| Digital input limit* | 4 | 8 | 16 |
| Color display | | ● | ● |
| Data logging and download | | ● | ● |
| On/Off threshold Control | optional | optional | optional |
| Advanced control (e.g. PID) | optional | optional | optional |
| Remote (internet) access | | optional | optional |
| PROFIBUS, Modbus | | optional | optional |

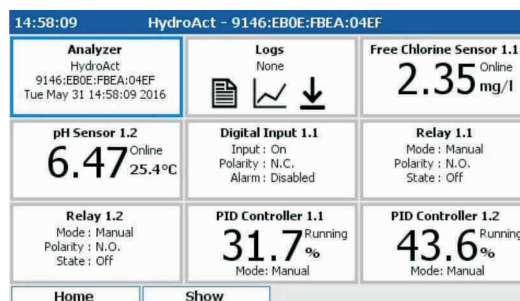
*Optional configuration limits. See above description for standard configuration of analyzer version & I/O setup. Optional configurations must be specified.

| | |
|-----------------------------------|---|
| Sensor Options: | Ozone, Free Cl, Total Cl, Cl Dioxide, Chlorite, ORP, pH with Temperature, DO, Conductivity, SCM, UV254 Organics, TSS/NTU, Particle Counter |
| Available Output Type: | 4-20mA |
| Relays (optional): | SPST electromechanical relays rated for 380 VAC, 6A max. |
| Alarms & Thresholds: | 2 user-configurable alarms and 2 user-configurable thresholds (for control) |
| Chemical Feed Control (optional): | HA4 & HA8 only - PID, Feed Forward, Flow Proportional, Timer - multiple loops |
| Communication (optional): | Modbus ASCII/RTU (RS485), Modbus TCP (Ethernet), Profibus DP |
| Data Logging (optional): | Customizable data logs. 1 million records can be logged internally, and downloaded to MicroSD card. |
| Enclosure: | ABS flame retardant, IP65, Nema 4X |
| Display: | 4.3", 480x272, 24 bit, grayscale Optional: color (HA4 & HA8 only) |
| Dimensions: | HA2 & HA4 - 9.0" W x 12.2" H x 4" D (230 mm W x 309 mm H x 1035 mm D) HA8 - 18.0" W x 12.2" H x 4" D (460 mm W x 309 mm H x 1035 mm D) |
| Weight: | HA2 & HA4 - 4.5 lbs (2 kg) HA8 - 9 lbs (4 kg) |
| Warranty: | 12 months from date of purchase |

Ozone Sensor

| | |
|----------------------------|---|
| Type: | Membrane-covered amperometric polarographic two-electrode sensor |
| Measured: | Residual Ozone |
| Optional Probe Ranges: | 0.05 - 0.2, 0.05 - 0.5, 0.05 - 2, 0.05 - 5, or 0.05 - 10 mg/L (ppm) |
| Resolution: | 0.01 mg/L (1 ppb) |
| Reproducibility: | ±5% |
| Stability: | -1% per month (without calibration) |
| Working Electrode: | Gold cathode |
| Counter Electrode: | Silver/silver halide |
| Membrane Material: | Micro-porous hydrophillic membrane |
| Flow Rate: | 15 to 60 L/hr |
| Temperature Range: | > 3 up to 50° C |
| Temperature Compensation: | Automatically by integrated thermistor (ATC) |
| pH Range: | pH 2 - pH 11 |
| Permissible Over-Pressure: | 7.25 psi (0.5 bar) |
| First Polarization Time: | 120 min. |
| Re-Polarization Time: | 30 min. |
| Zero-Point Adjustment: | Not necessary |
| Calibration: | Manual using a suitable ozone test kit |
| Housing Material: | PVC, silicone, polycarbonate, stainless steel |
| Dimensions: | Diameter approx. 0.98 in., length 6.89 in. |
| Replacement Intervals | |
| Membrane: | Annually |
| Electrolyte: | Every 3 to 6 months |

HydroACT System Overview Screenshot



HydroACT Graph Screenshot

(seen here with optional color display)

