



## 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

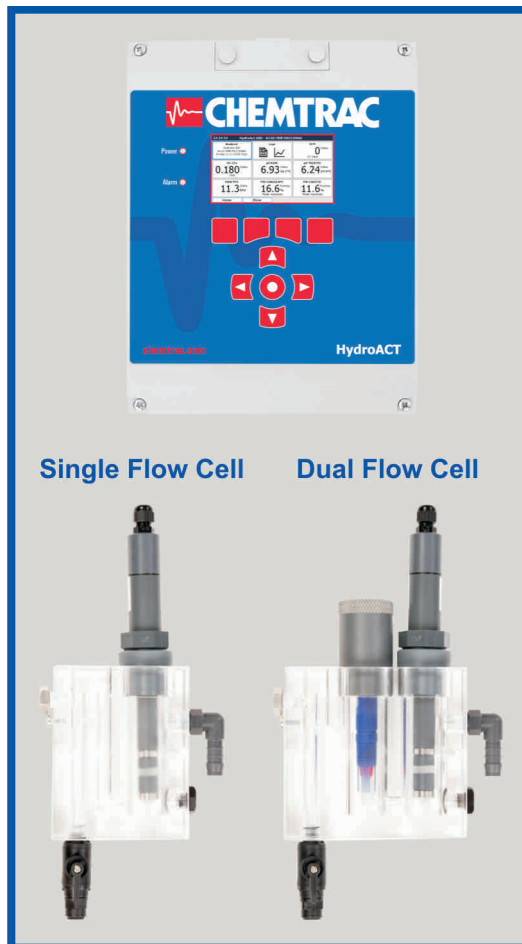
Hospitals

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

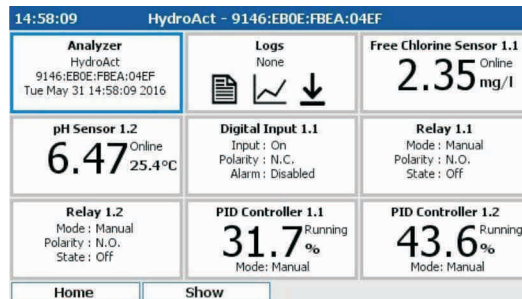


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## Ozone Sensor

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 hydrophilic 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)

