



MULTI-PARAMETER ANALYZER

HydroACT 600

KEY FEATURES

- Capable of accepting up to six measurements including: Free Chlorine, "Zero" Free Chlorine, Total Chlorine, Chlorine Dioxide, Ozone, pH & Temp, ORP, TSS/NTU, DO, SCM, UV254 Organics, Conductivity, Chlorite, and Particle Counter
- Capable of providing up to six analog outputs, eight relays, and four digital inputs
- Data log and system log
- Color display with graphical trending capability
- Isolated inputs and outputs

OPTIONAL FEATURES

- Larger Display (Touchscreen)
- PID control capability
- Integrated modem with text alarms
- Remote internet access
- Modbus communication (RTU and TCP) or PROFIBUS
- Low flow detector

BENEFITS

- No reagents or moving parts
- Easy set up and maintenance
- Intuitive menu and programming functions
- Low purchase and ownership cost

APPLICATIONS

Water and Wastewater Treatment
Swimming Pools
Cooling Water Monitoring

Paper Machine System Microbial Control
Legionella Control
Food Washing

DESCRIPTION

The HydroACT 600 analyzer provides expanded capability beyond Chemtrac's model HydroACT 300. The 600 model expands the number of possible measurements and analog outputs from 3 to 6 while also providing a color display, data logging, and PID Control capability as standard features. Simply decide which measurements and features you need and the HydroACT 600 is outfitted to meet your exact needs at the best possible price. Unsure what you need? Contact a Chemtrac representative who will help you determine the best configuration for your application. Customers who need more measurements or analog outputs than what the model 600 provides should consider the HydroACT 1200.



Residual Chlorine

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GENERAL SPECIFICATIONS

Analyzer

Power Options:	100-240 VAC, or 12 VDC
Display Options:	1/4 VGA color display, or 5.7" touchscreen
Sensor Options:	Free Cl, "Zero" Free Cl, Total Cl, Cl Dioxide, Ozone, pH with Temperature, ORP, SCM, DO, TSS/NTU, UV254 Organics, Conductivity, Chlorite, Particle Counter
Sensor Inputs:	Up to 6 (pH w/ Temp sensor requires 2 inputs)
Digital Inputs:	Up to 4 (e.g. low flow switch)
4-20mA Outputs:	Up to 6 (750 ohm load), PID option will utilize 1 output
Relays:	Up to 8 (250 VAC, 8A / 30 VDC, 8A)
Comms Options:	Modbus (RTU, TCP) or PROFIBUS
Datalogging:	Minimum 4000 data points per channel without Micro SD card (Datalogging can be expanded with Micro SD card)
Eventlogging:	4000 events
Graphing:	Last 400 logged data points
Expansion Slots:	4
Micro SD Slot:	1
Enclosure:	Nema 4X/IP65, ABS body, Polycarbonate lid
Dimensions:	9.0" W x 9.3" H x 5.3" D (230 mm W x 237 mm H x 135 mm D)
Weight:	4.4 lbs (2 kg)

Chlorine Sensor Probe (Free or Total)*

Type:	Membrane-covered amperometric three-electrode system
Measured:	Free residual chlorine or total residual chlorine
Probe Ranges:	0.01 - 2, 0.01 - 5, 0.01 - 10, or 0.01 - 20 mg/L 0.01 - 200 mg/L (Free residual chlorine only)
Resolution:	0.01 mg/L (ppm)
Reproducibility:	±5%
Stability:	-2% per month (without calibration)
Working Electrode:	Gold cathode
Counter Electrode:	Stainless steel anode
Reference Electrode:	Silver/silver halide
Flow Rate:	15 to 60 L/hr.
Temperature Range:	> 41° up to < 113° F (> 5 up to < 45° C)
Temperature Compensation:	Automatically by integrated thermistor (ATC)
pH Range:	pH 4 - pH 9 (Free), pH 4 - pH 12 (Total)
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 DPD
Housing Material:	PVC, silicone, polycarbonate, stainless steel
Dimensions:	Diameter approx. 0.98 in., length 6.89 in.
Replacement Intervals	
Membrane:	Annually (Approx.) - depending on water quality
Electrolyte:	3 - 6 months
Interferences:	Ozone and chlorine dioxide. Surfactants are partially tolerated

*Not suitable for measuring or controlling for dechlorination
Recommended to have a Free Chlorine residual of at least 0.10 ppm at all times

Chlorine Dioxide Sensor Probe

Type:	Membrane-covered amperometric two-electrode system
Measured:	Chlorine dioxide
Probe Ranges:	0.01 - 0.5, 0.01 - 2, 0.01 - 5, 0.01 - 10, or 0.01 - 20 mg/L (ppm)
Resolution:	0.01 mg/L (ppm)
Repeatability:	< 1%
Working Electrode:	Gold cathode
Counter Electrode:	Anode: combined reference and counter electrode of silver/silver halogenide
Flow Rate:	15 to 60 L/hr
Temperature Range:	> 41° up to 122° F (> 5° up to 50° C)
Temperature Compensation:	Automatically by integrated thermistor (ATC)
pH Range:	pH 1 - pH 11
Permissible Over-Pressure:	14.5 psi (1 bar)
First Polarization Time:	60 min.
Re-Polarization Time:	30 min.
Zero-Point Adjustment:	Not necessary
Calibration:	Manual using analytic determination
Housing Material:	PVC, silicone, polycarbonate, stainless steel
Dimensions:	Diameter approx. 0.98 in., length 6.89 in.
Replacement Intervals	
Membrane:	Annually (Approx.) - depending on water quality
Electrolyte:	3 - 6 months
Interferences:	Ozone

pH with Temperature Sensor Probe (requires 2 inputs)

Type:	Combined reference, and measuring electrode
Reference Type:	Patented electrochemically active solid polymer junction
pH Range:	0-14
Slope:	95-102%
Pressure Range:	0 - 145 psi (0 - 10 bar)
Long Term Stability (drift):	< 0.01 pH/hour
Reproducibility:	< 0.01 pH
Impedance:	pH Glass <200 MOhm
Solid State:	<200 KOhm
Response Time:	95% of step pH2 to pH12 < 5 sec
Temperature Range:	32° - 212° F (0° - 100° C)
Wetted Surface:	pH Glass - Red Polymer - PVDF Body - Viton O rings
Cable:	Low noise Coaxial + 4 wires 6.5 ft. (2 m) Special order up to 32.8 ft. (10 m)
Shelf Life:	12 months
Temperature Compensation:	Automatically by integrated thermistor PT100 (ATC)
Estimated Life:	12 - 24 months (application dependent)