



STREAMING CURRENT CHARGE ANALYZER HA600 with DURATRAC 3

DESCRIPTION

The **HydroACT 600** with **DuraTrac 3 Streaming Current Sensor** provides an extremely versatile system for optimizing coagulant or polymer dosing. With expansive I/O, state of the art chemical feed control logic, and the ability to monitor additional parameters key to coagulation (e.g. pH, UV254, NTU), the HydroACT 600 offers a comprehensive and scalable approach for tackling virtually any water treatment scenario. An optional web browser based user interface gives the user remote access to everything they need to reliably control multiple feed systems (coagulant, flocculant, chlorine, acid, caustic, etc). Sensor diagnostics, advanced alarm features, and optional email/text alerts all work together to notify the user when service is required or when process conditions having changed sufficiently to warrant attention. Contact Chemtrac to discuss your application and let us provide a solution that meets your requirements.

STANDARD FEATURES

- Accepts up to 5 additional sensor inputs (e.g. UV254, TSS/NTU, pH, Chlorine, Conductivity)
- Quick-replacement probe and piston
- Color display with graphical trending capability
- Data logging with micro SD card slot for data download
- Automatic Gain and Zero Adjust features
- 1 year warranty

OPTIONAL FEATURES

- Up to 6 chemical feed control outputs with Overfeed Protection and Flow Pacing capability
- Conductivity compensation for streaming current signal
- Remote access via web server over LAN or GSM modem with email or text alerts
- Automatic Flush
- Modbus or PROFIBUS communications
- Touchscreen (with larger display)

BENEFITS

- Capability of incorporating multiple measurements that are key to coagulation, such as pH, TSS/NTU, and UV254 organics
- Advanced features allow for a highly flexible and reliable chemical feed control solution

APPLICATIONS

Water Treatment

- Respond quickly to NTU/organics changes
- Optimize coagulant usage
- Reduce sludge generation
- Improve clarifier performance
- Extend filter run time
- Reduce membrane fouling
- Monitor for overfeed of filter aids



Streaming Current

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GENERAL SPECIFICATIONS

HydroACT 600 Analyzer

Sensor Options:	SCM, UV254 organics, TSS/NTU, Free Cl, "Zero" Free Cl, Total Cl, Cl Dioxide, Ozone, pH with Temperature, ORP, DO, Conductivity, Chlorite, Biofilm, Particle Counter
Measurement Parameters:	Up to 6 (some sensors may count as multiple measurement parameters; check with factory)
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)
Digital Inputs:	Up to 4 (e.g. low flow switch, process run/stop)
Chemical Feed Control:	Up to 6 loops, control options include: PID, flow pacing, timer
Display Options:	1/4 VGA color display; or 5.7" touchscreen
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)
Graphing:	Last 400 logged data points
Event Logging:	4000 events
micro SD Slot:	1 (for data download & memory expansion)
Expansion Slots:	4 (for digital comms, modem)
Power Options:	100-240 VAC, or 12 VDC
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)

DuraTrac 3 Streaming Current Sensor

Range:	-1000 to +1000
Signal Gain:	User-adjustable, 1 to 600x
Zero Offset:	User-adjustable
Sample Flow Rate:	1 - 5 GPM
Probe Type:	Quick-replacement cartridge
Piston Type:	Quick-replacement
Water Sample Connections:	Inlet, 0.75" (19 mm) OD, barb type
Water Sample Outlet:	1" (25 mm) pipe to atmosphere
Materials Contacting Sample:	Delrin, nylon, neoprene, viton, PVC, stainless steel
Wiring Connections:	1 ea. shielded, 4 conductor, 18 AWG
Self Diagnostics:	Motor, opto switch
Power Requirements:	110 VAC, 1 A, 60 Hz 220 VAC, 1 A, 50 Hz (optional)
Enclosure:	NEMA 4X, fiberglass reinforced
Operating Temperature:	34° - 120° F (1° - 49° C)
Dimensions:	9.2" W x 7.2" H x 5.3" D (234 mm W x 183 mm H x 135 mm D)
Weight:	10 lbs (4.5 kg)

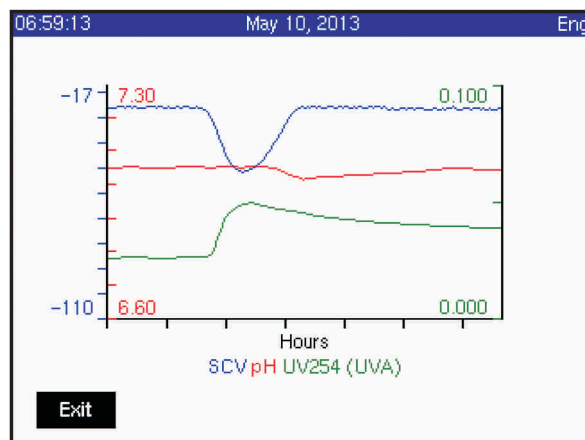
Optional Accessories

Automatic Sensor Flush:	Sensor flush only
Integrated modem and text alerts	
Remote Internet access (web server) with email alerts	

Remote Access Screenshot



HA600/HA1200 Graph Screenshot



Installation Diagram

