hf scientific
Water Quality Measurement Solutions

AccUView WASTEWATER

Online UV%Transmission Analyzer

Detailed Specifications



Instrument Overview

With over 30 years of optical design technology expertise HF scientific has developed it's 4th generation Wastewater UV %Transmission Analyzer specifically for the harsh environment of wastewater applications.

The AccUView Wastewater is manufactured using microprocessor technology, a NEMA 4X Stainless Steel Enclosure and advanced ultrasonic technology making it the most reliable, maintenance free and cost efficient UV %T Analyzer for Wastewater.

The Auto Clean Ultrasonic Cleaning System continuously cleans the optical chamber providing a maintenance free reliable measurement.

Standard Features

- **Range of 0 - 100% Transmission (Auto Ranging)**
- **Outputs: 4-20mA with isolator or Optional RS-485 with Modbus Protocol**
- **Bellows Pump provides reliable sample flow to the instrument**
- **Ultrasonic Cleaning continuously cleans the optical chamber ensuring accurate and reliable readings.**
- **Removeable sample cuvettes allow for easy cleaning and calibrating.**

Features

Optical Design
New optical design allows consistant readings with laboratory %T analyzers.

Bellows Pump
Pump included to provide reliable sample flow to the instrument. New pump and flow through design increases efficiency and decreases the amount of sample to drain.

Certified Traceable Standards
HF scientific inc. certifies the PRIMELIME 100%T Calibration Standard is prepared as outlined in Standard Methods for the Examination of Water and Wastewater, 21st Edition, Method 1080 A-C, Methods for Preparation of Reagent Water.

New Design
New smaller footprint modular design allows for easy installation and uses a minimal amount of space. New optical design increases accuracy and provides a consistent reading with laboratory %T readings

Backlight Display
User adjustable Backlight Display allows viewing in low light conditions. Stainless Steel Enclosure includes large viewing window to allow monitoring of readings without opening the enclosure.

Certification
Listed or Certified to CE, UL, CSA (ETL,ETLc)

Sample Specifications

The Wastewater UV %Transmission Analyzer shall include the AccUView Analyzer, Power Supply, T-Strainer, Bellows Pump and 304 Stainless Steel Nema 4X (IP66) Enclosure with large viewing window. The analyzer shall use a bellows pump to draw the sample to the instrument. Sample cycle times shall be between 10 and 60 minutes. The UV %Transmission Analyzer shall have a full time automatic ultrasonic cleaning system. It shall have a standard 4-20mA output with isolator or optional RS-485 with Modbus Protocol. Resolution shall be 0.1 %T. Repeatability shall be ± 0.1 %T.
The sensor shall consist of a rotational flow through assembly with a removable 30 ml cuvette. Calibration and standardization will be accomplished using a small volume 30 ml quartz cuvette. The lamp source and detector will not come in contact with the sample. The analyzer shall use menu driven software for ease of use and simple menu navigation. The OnLine Wastewater UV %T Analyzer shall be HF scientific AccUView Wastewater UV %Transmission Analyzer.



Ultrasonic Cleaning System
Keeps the optical chamber clean in finished or raw water applications.

Specifications for AccUView WASTEWATER

Range:	0-100% Transmission
Resolution:	0.1%T
Repeatability:	± 0.1%T
Accuracy:	± 1.0%T
Wavelength:	Ultraviolet 253.7nm
Response Time:	Updated at Selectable sample intervals from 10 to 60 minutes
Cleaning System:	Ultrasonic Cleaning
Outputs:	4-20mA with isolator or Optional RS-485 with Modbus Protocol
Alarm:	User Settable 240 VAC form C Relay
Operating Temperature:	-20°C to 50°C (-4° to 122°F) Low temperature operation requires optional cold weather kit
Sample Temperature:	0°C to 40°C (32°F to 104°F)
Storage Temperature:	-20°C to 60°C (-4°F to 140°F)
Sample Lift:	3.5m (12 ft.)
Sample Strainers:	Foot Strainer and T-Strainer
Pump Type:	Bellows
Flow Rate:	Approximately 500 ml/min
Display:	Multiline Custom LCD with Backlight
Power Requirements:	100 to 240 VAC 47-63 Hz
Enclosure:	Stainless Steel with Lexan window
NEMA Ratings	Designed to meet NEMA 4X
Agency Testing:	CE, CE safety self-declare, ETLus & ETLc
Dimensions:	20”W x 20.75”H x 13”D (50.8cm x 52.7cm x 33cm)
Shipping Weight:	23.6 kg (52 lbs)

*ASTM, 21st Edition, method 1080 A-C

Specifications subject to change without notice.

Ordering Information

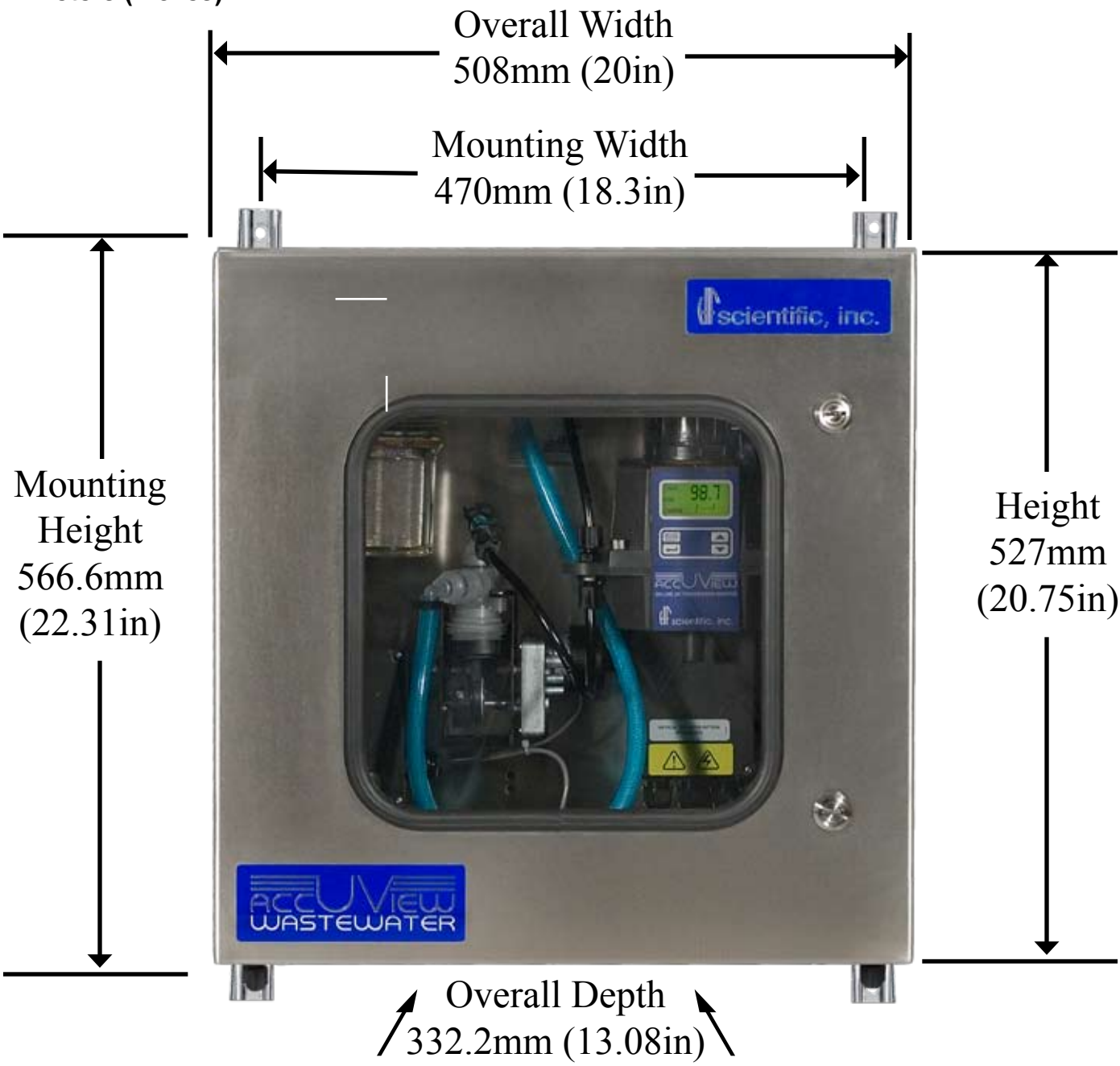
Catalog No.	Description
19571	AccUView **WASTEWATER** OnLine UV%Transmission Analyzer, 100-240 VAC, 50/60 CPS
19571C	AccUView **WASTEWATER** OnLine UV%Transmission Analyzer, with Heater 100-240 VAC

Accessories

24232S	Quartz Cuvette with Ultrasonic Transducer
19609	Remote Display for an additional digital readout up to 500 feet away
19323	PRIMELIME Primary Calibration Standard, 100%T, Certified NIST Traceable 500mL
70908	PRIMELIME Primary Calibration Standard, 100%T, Certified NIST Traceable 1 gallon
19851A	RS-485 output with Modbus Protocol (factory installed option)

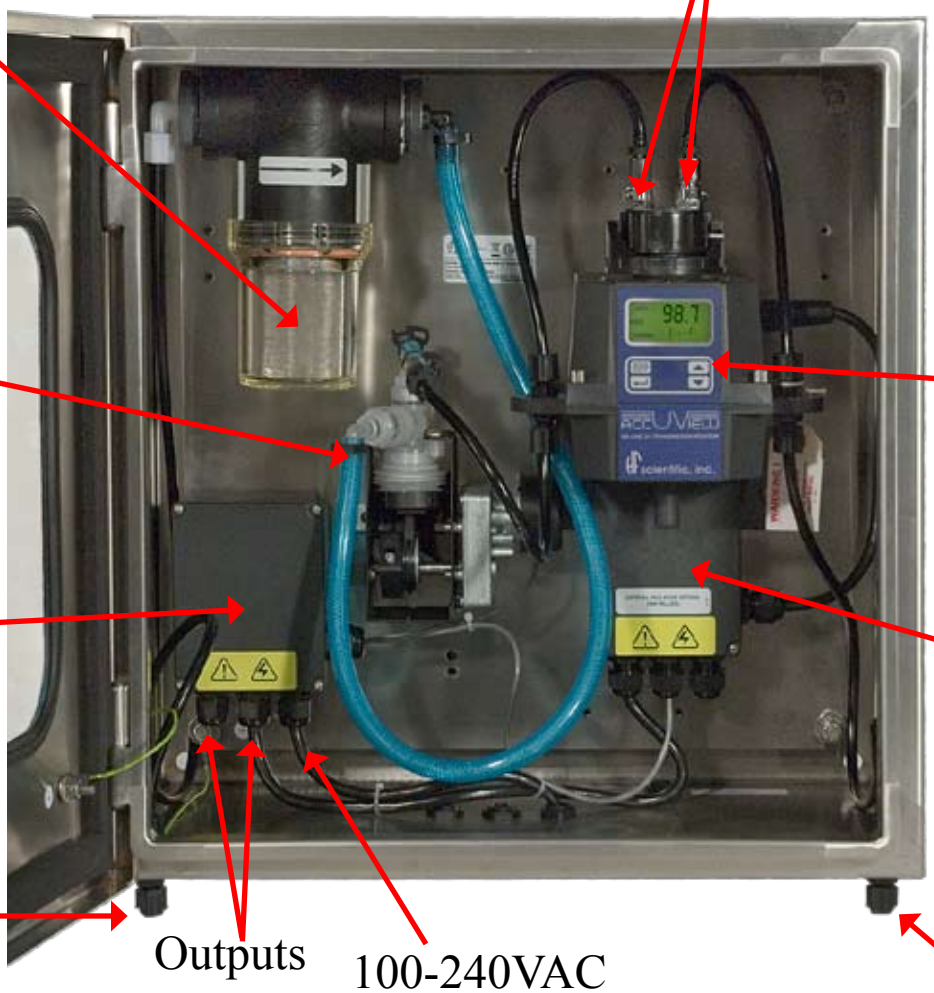
Dimensions for ACCUVIEW WASTEWATER

All Dimensions are in Millimeters (inches).



Overall Mounting Dimensions of the Instrument

Dimensions for AccUView WASTEWATER



The AccUView Wastewater Panel

HF scientific
3170 Metro Parkway
Ft. Myers, FL 33916-7597
Phone: (239) 337-2116
Fax: (239) 332-7643
Email: hfinfo@watts.com
www.hfscientific.com