HF scientific

Water Quality Measurement Solutions

AccUView Online UV%Transmission Analyzer

for Drinking Water Systems

Detailed Specifications

Instrument Overview

HF scientific developed the AccUView UV%Transmission Analyzer specifically to fill the need for increased drinking water UV disinfection monitoring.

The AccUView is manufactured using microprocessor technology making it the most reliable and cost efficient instrument for monitoring the % transmission of drinking water UV disinfection systems.

The Auto Clean Ultrasonic Cleaning System continuously cleans the optical chamber to reduce operator maintenance time.



Standard Features

- **Range of 0 - 100% Transmission (Auto Ranging)**
- **Ultrasonic cleaning continuously cleans the sample cell ensuring accurate and reliable readings**
- **Fast response time and inexpensive calibration due to low (30 ml) sample volume.**
- **Modular design reduces overall costs.**
- **Removeable sample cuvettes allow for easy cleaning and calibrating.**
- **4-20 mA output or Optional RS-485 with Modbus protocol.**
- **Patent Pending Design**

Features

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

Bubble Rejection System
The optical chamber has been designed to eliminate air in the sample while simultaneously creating a vortex cleaning action throughout the optical chamber.

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, 20th Edition, Method 1080 A-C, Methods for Preparation of Reagent Water.

New Design
One-piece mounted design allows for simple mounting and minimal use of space. New optical design increases accuracy and provides more consistent readings with online and laboratory %T Analyzers.

Response Time
Adjustable response times allow User to program readings to be taken between 4 to 60 seconds.

Backlight Display
User adjustable Backlight Display allows viewing in low light conditions.

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

Sample Specifications

The continuous monitoring system shall include a single modular unit with power supply, display and sensor as one single mounted unit. The %T Analyzer shall have consistent readings with laboratory %T Analyzers. The %T Analyzer shall be Modbus compatible and have a full time automatic ultrasonic cleaning system for finished or raw water applications. Resolution will be 0.1 %T. Repeatability shall be plus or minus 0.1%.

The sensor shall consist of a rotational flow through assembly with a 30ml cuvette. The specially designed flow head bubble rejection system eliminates the need for a bubble trap and ensures an immediate response time. The sensor shall be able to accommodate grab samples. Calibration and standardization will be accomplished using a small volume (30ml) cuvette. The lamp source and detector shall not come in contact with the sample. The %T Analyzer shall use menu driven software for ease of use. The %T Analyzer enclosure shall be NEMA 4X (IP66). The OnLine %T Analyzer shall be HF scientific AccUView OnLine %T Analyzer.



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

Specifications for AccUView OnLineUV%T Analyzer

Range	0 - 100% Transmission
Repeatability	± 0.1% T
Resolution	0.1% T
Accuracy	± 1.0 % T
Wavelength	Ultraviolet 253.7nm
Response Time	User Selectable Updates from 4-60 seconds
Pressure/Flow Rate	Maximum 200 psi/1000ml per minute Built in Regulation Provided
Standard Outputs	4-20 mA with isolator
Optional Output	RS-485 with Modbus Protocol
User Alarms	2 User Selectable High / Low Alarms
Calibration	*PRIMELINE 100% T Standard Certified
Display	Multiline Custom LCD with Backlight
Security Code	Prevents unauthorized access
Built in Diagnostics	Yes
Storage Temperature	-4°F to 140°F (-20°C to 60°C)
Operating Temperature	0 - 50°C (32° to 122°F)
Wetted Surfaces	Nylon, Quartz, Silicon, Polypropylene, Stainless Steel
Enclosure	NEMA 4X, IP66
Outdoor Installation	32°F to 122°F (0°C to 50°C) (Protective Enclosure Required)
Certifications	CE, ETL (UL), ETLC (CSA)
Dimensions	14 " x 12" x 12" (35 cm x 30 cm x 30 cm)
Shipping Weight	2.72 kg (6 lbs.)
Electrical	90 - 250 Volts, 50/60 CPS, 80VA

Specifications subject to change without notice.

*ASTM, 20th Edition, method 1080 A-C

Ordering Information

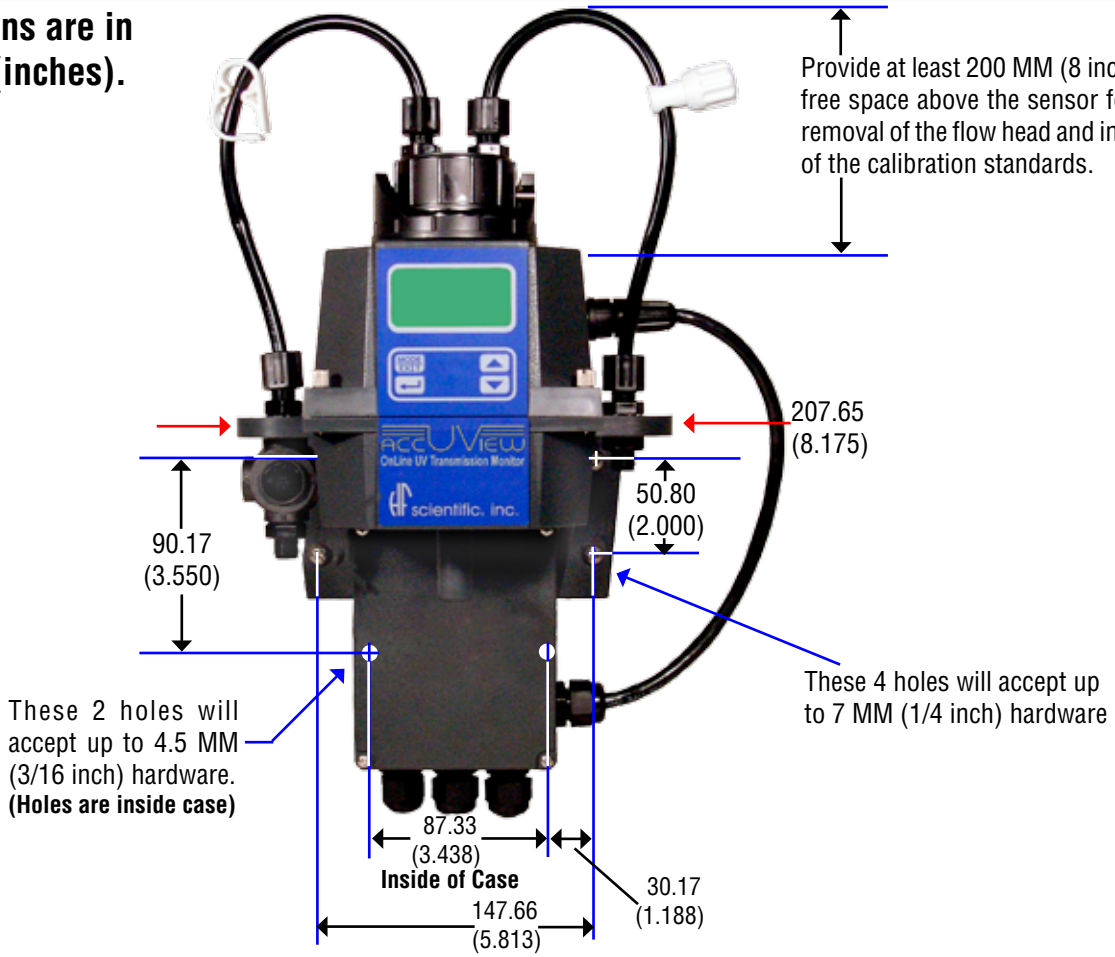
Catalog No.	Description
19577	AccUView OnLine UV%Transmission Analyzer, 100-240 VAC, 50/60 CPS

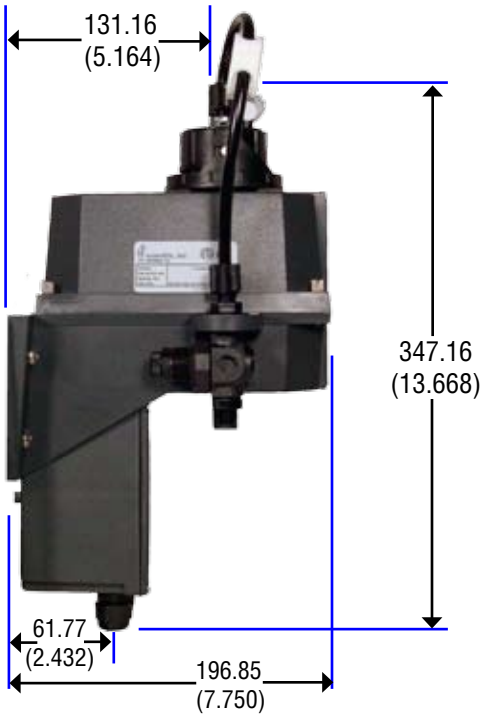
Accessories

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

Dimensions for AccUView OnLine UV%T Analyzer

All Dimensions are in Millimeters (inches).





Dimensions for AccUView OnLine UV%T Analyzer

Shutoff Clamp allows for shutoff of the intake flow during cuvette cleanings and replacements.

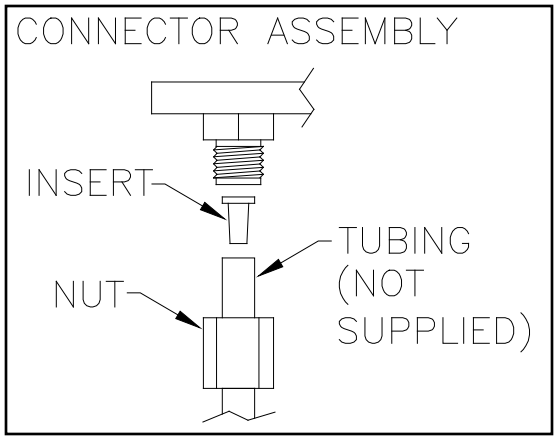
Backpressure Valve allows adjustment of the amount of back pressure, which will help to control flow rate and eliminate small bubbles.



Inline Pressure Regulator
Max. Input 1380 kPa (200psi)
Factory set to 103.5 kPa (15 psi)

Intake Tubing Connection
4.75 mm (3/16 inch) I.D., 8 mm (5/16 inch) O.D. tubing should be connected here to supply the sensor with a dependable sample flow.

Drain Tubing Connection
4.75 mm (3/16 inch) I.D., 8 mm (5/16 inch) O.D. tubing should be connected here to route the sensor drain tubing to a suitable site drain.



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