For Commercial Applications

Job Name _____ Contractor _____

Job Location _____ Approval _____

Engineer _____ Contractor's P.O. No. _____

Approval _____ Representative _____

AccUView

LED Online UV Analyzer

With over 30 years of optical design expertise HF scientific has developed an AccUView LED Online UV Analyzer specifically for drinking water disinfection monitoring. Engineered using leading edge microprocessor technology, the AccUView LED is the most reliable and cost efficient instrument for monitoring the %Transmission and Absorbance of a UV disinfection system for drinking water.

Standard features include simple calibration procedures, a bubble rejection system, an Ultrasonic Autoclean System designed to reduce operator maintenance time, and selectable scaling of %Transmission or Absorbance.

Ultrasonic Autoclean System

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

Features

- UVC LED light source – Longer life and mercury free
- Two measurement scales – %Transmission and Absorbance
- Communications – Standard communications include 4-20 mA with isolator or RS-485 with Modbus protocol
- Affordable – Modular microprocessor based technology ensures high quality at an affordable price
- Certified Standards – HF scientific certified 100%T Calibration Standard
- Low Maintenance Fail Safe Design – Simple Modular Design. Ultrasonic autoclean system reduces time consuming maintenance

Optical design

New optical design allows consistent readings with laboratory %T analyzers.

Bubble rejection system

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 certifies the 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.

Response Time

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

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.

Backlight Display

User adjustable Backlight Display allows viewing in low light conditions.

Certification

The data acquisition system is designed to sequentially collect data from a series of interfaced HF scientific turbidimeters. The software system stores data, prints reports, graphs and alarms on each individual turbidimeter. In addition it can compare filters and monitor individual or multiple filter efficiency.

Certification

CE, listed or certified to UL, CSA (ETL,ETLc)

Two scales

Selectable scaling of %Transmission or Absorbance

UVC LED light source

Offers longer life and is mercury free.

HF scientific

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Specifications

The continuous monitoring system shall include a single modular unit with power supply, display and sensor as one single mounted unit. The Analyzer shall have consistent readings with laboratory Analyzers. The Analyzer shall be Modbus compatible and have a full time automatic ultrasonic autoclean system for finished or raw water applications. Resolution will be 0.1 %T. Repeatability shall be plus or minus 1%T.

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 Analyzer shall use menu driven software for ease of use. The Analyzer enclosure shall be NEMA 4X (IP66). The Online Analyzer shall be HF scientific AccUView LED Online Analyzer. Selectable scaling of %T or ABS shall be provided. The lamp source shall be a UV LED.

AccUView LED Online UV Analyzer with Flow Alarm Model Shown

Specifications (cont.)

Range	0-100% Transmission (Auto Ranging), 0 - 2.0 ABS
Resolution	± 0.1%T, ±0.0001 ABS
Repeatability	± 1.0%T, ±0.002 ABS
Accuracy	± 1.0%T, ±0.002 ABS
Wavelength	Ultraviolet 253.7nm
Response time	User selectable update from 4-60 sec.
Pressure/Flow rate	Maximum 150psi
Operating temperature	0°C - 50°C (32°F to 122°F)
Standard outputs	4-20mA with isolator or RS-485 with Modbus Protocol
Security code	Prevents unauthorized access
Built in diagnostics	Yes
Alarms	2 user selectable high / low alarms
Calibration	100%T Standard Certified
Storage temperature	-4°F to 140°F (-20°C to 60°C)
Operating temperature	32°F to 122°F (0°C to 50°C)Wetted
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)
Display	Multiline Custom LCD with Backlight
Certification	CE, ETL (UL), ETLc (CSA)
Electrical	100 - 240 Volts, 47-63 HZ, 80VA
Shipping Weight	3 kg (6.7 lbs)
Shipping Dimensions	15"L x 11"H x 10"W (38cm x 28cm x26cm)

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

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

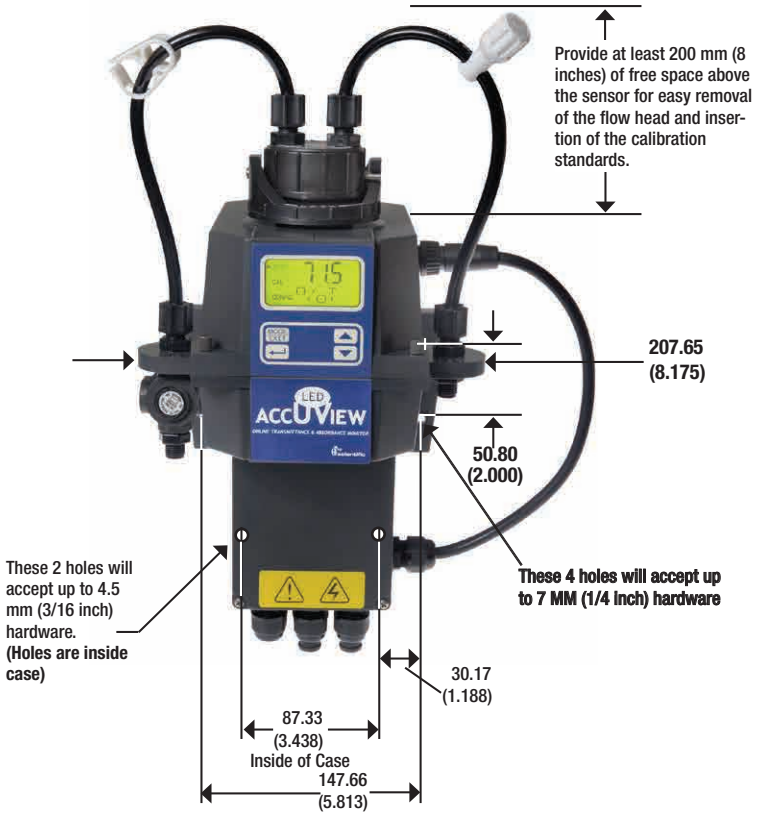
Intake tubing connection 4.75 mm (3/16 inch) I.D., 8 mm (5/16 inch) O.D. tubing should be connected here to supply the sensor with a dependable sample flow.

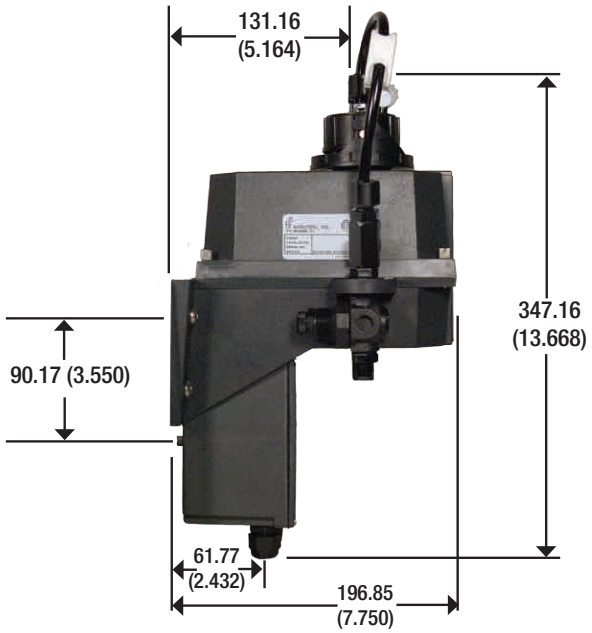
Backpressure valve allows adjustment of the amount of back pressure, which will help to control flow rate and eliminate small bubbles.

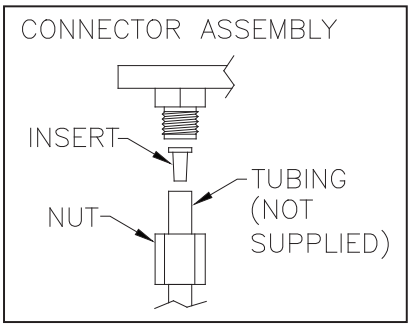
Drain tubing connection 4.75 mm (3/16 inch) I.D., 8 mm (5/16 inch) O.D. tubing should be connected here to route the sensor drain tubing to a suitable site drain.

Dimensions

All Dimensions are in millimeters (inches).







Ordering Information

CATALOG NO.	DESCRIPTION
28041	AccUView LED Online UV Analyzer, 100-240 VAC
28042	AccUView LED Online UV Analyzer with Flow Alarm, 100-240 VAC

Accessories

24232S	Quartz Cuvette with Ultrasonic Transducer
19323	Calibration Standard, 500mL, 100%T, Certified
70908	Calibration Standard, 1 gal., 100%T, Certified

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