

AccUView OnLine UV % Transmission Analyzer

With over 30 years of optical design expertise HF scientific has developed an AccUView Online UV%Transmission Analyzer specifically for drinking water disinfection monitoring. Engineered using leading edge Microprocessor technology the AccUView is the most reliable and cost efficient instrument for monitoring the %transmission of a UV Disinfection System for drinking water. Standard features include simple calibration procedures, a bubble rejection system and an Ultrasonic Cleaning System designed to reduce operator maintenance time.

Standard Features

- **Ultrasonic autoclean: Patented design # US 7,808,642 B2**
Ultrasonic cleaning system continuously cleans the sample cell ensuring accurate and reliable readings.
- **Communications**
Standard communications include 4-20 mA with isolator or Optional 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. Automatic cleaning reduces time consuming maintenance.

Optional Features

- **Remote Display**
Allows remote monitoring up to 500 feet from the instrument.



**Ultrasonic
Cleaning System**

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

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 inc. 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.

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

CE, listed or certified to 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.

Ordering Information

Cat. No.	Description
19577	AccUView OnLine UV% Transmission Analyzer, 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
19609	Remote Display, for an additional digital readout up to 500 feet away
19851A	RS-485 output with Modbus protocol (factory installed option)

Specifications

Range:	0-100% Transmission (Auto Ranging)
Resolution:	0.1%T
Repeatability:	± 0.1%T
Accuracy:	± 1.0%T
Wavelength:	Ultraviolet 253.7nm
Response time:	User selectable update from 4-60 sec.
Pressure/Flow rate	Maximum 200 psi/1000ml per minute Built in regulation provided
Operating temperature:	0 - 50°C (32° to 122°F)
Standard outputs:	4-20mA with isolator or optional 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), ETL (CSA)
Shipping Dimensions:	15"Lx11"Hx10"W (38cm x 28cm x26cm)
Shipping Weight:	3 kg (6.7 lbs)
Electrical	100 - 240 Volts, 47/63 HZ, 80VA

Specifications subject to change without notice.

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.

Dimensions

All dimensions are in millimeters (inches).



