Blue-White®

APNTU
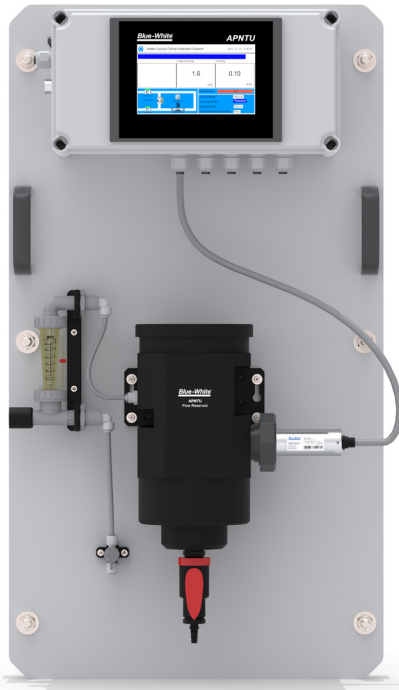## Online Turbidity Analyzer

Key Features

- Turn-Key Monitoring Solution for Clean Water Applications
- Highly Accurate, Real-Time Measurement, Display, and Data-Logging
- Ultra-Low Turbidity Range
- Touch Screen Display and Data-Logging Terminal
- UT700 Ultra-Low Turbidity Sensor with Unique Flat Surface Distal End in Quartz Glass Plate
- EPA 180.1 Compliant

Highlights

Turbidity Dual Range

.001 - 10 / 10 - 40.00 NTU

Turbidity Accuracy

+/- 0.005 NTU or
2% <10NTU

Turbidity Repeatability

+/- 0.001 NTU or
0.5% <10NTU

Sampling Chamber

Single-Sensor Flow Reservoir

Sensor

White Light (LED)
Flat Electrode

Warranty

13 Months

Typical Applications

- Drinking Water
- Domestic Water
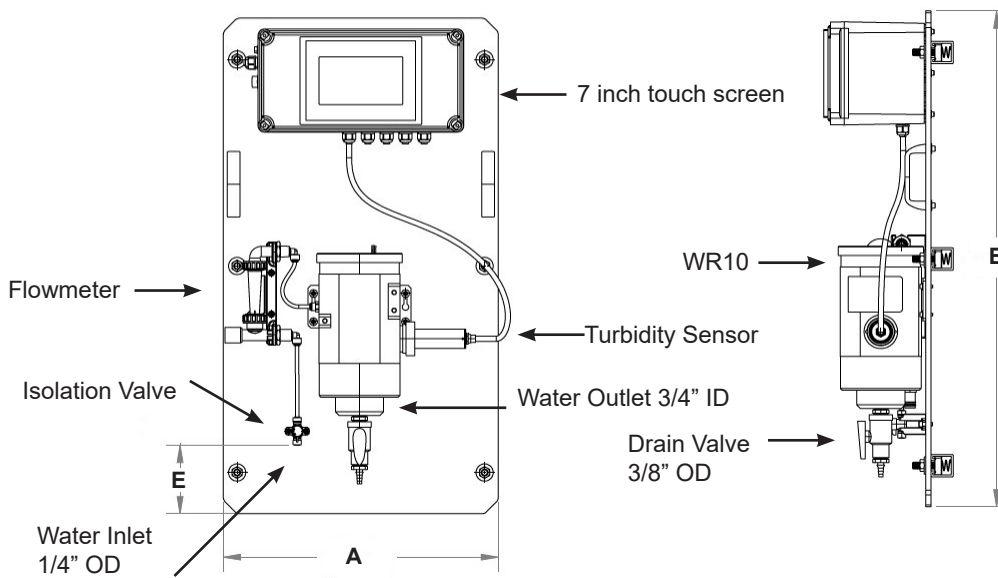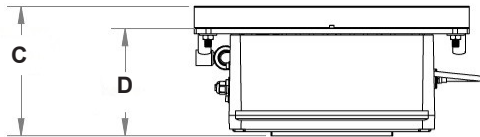- Secondary Water Supply
- Sanitary Water

For more help and information regarding **APNTU**, please visit www.blue-white.com or scan this QR code.

Engineering Specifications

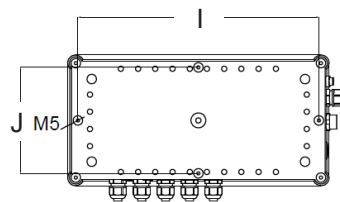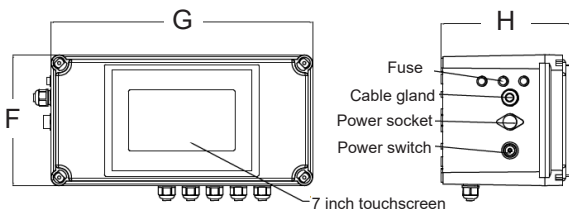| Item	APNTU
Turbidity Wavelength	Warm White
Light Source	LED
Turbidity Dual Range	0.001 – 10 / 10 - 40.00 NTU
Turbidity Accuracy	+/- 0.005 NTU or 2% <10NTU
Turbidity Repeatability	+/- 0.001 NTU or 0.5% <10NTU
Minimum Resolution	0.001 NTU
Response time	4s after immersion - Turbidity
Compliance	EPA-180.1
Measurement Interval	Continuous Measurement
Display	7-inch LCD Color Industrial Capacitive Touch Screen
Storage Capacity	Built-In 4GB of Ram for Storing up to 1-Million Data/Event Records
Power Requirement	96-260VAC / 50-60 Hz; 10A Fuse; 200 W
Output	2 x 4-20 mA / RS-485 Modbus - RTU / Modbus TCP
Input	2 x 4-20 mA / RS-485 Modbus - RTU
USB	1 x USB host, for data downloading and screen upgrade
Internet	RJ-45 socket, Modbus-TCP
Panel Operational Temperature	40 – 113°F (4-45 °C)
Storage Temperature	Instrument: -4 – 131°F (-20 – 55°C) / Sensors 32 – 122°F (0 – 50°C)
Sample Water Temperature	40 – 104°F (4-40°C)
Sample Water Pressure	7.5 to 30 psi (0.2MPa) - (or as needed to provide required flow rate)
Installation	WR10 Self-Regulating Flow Reservoir w/Rotameter & Isolation Valve - Included
WR10 Minimum Flow Rate	3.1 g/h (200 mL/minute)
WR10 Maximum Flow Rate	6.2 g/h (400 mL/minute)
WR10 Sample Inlet	1/4 - inch OD
WR10 Sample Outlet	3/4 - inch ID - To Drain
WR10 Drain	1/2 - inch NPT
Rating	IP-65 Panel-Display / IP-67 Sensors
Regulation	CE / RoHS
Relative Humidity	20% - 90% (No Condensation)
Altitude	<6,561 feet (<2,000 Meter)
Dimensions (HxWxD)	Panel 36.00 H x 20.00 W x 9.42 D inches
Approximate Product Weight	33 lbs
Shipping Dimensions	42" x 26" x 16" (1067H x 661W x 407D mm)

Features

- Ultra-low resolution UT700 turbidity sensor offers a detection light source using warm white LED in 90-degree surface scatter format in accordance with USEPA 180.1 standards.

- Turbidity Sensor offers a flat electrode design making them easy to maintain and clean. Simple sensor removal and replacement.

- Single-Sensor flow reservoir provides sample calming for dissipation of air-bubbles and settling of suspended solids, foam or other impurities commonly observed in drinking water influent. Allows highest level of turbidity resolution on the market, and greatly extends the maintenance cycle while providing a large buffer to mitigate pressure fluctuations.

APNTU Series Panel Dimensions

Dim	Inch	cm
A	20.00"	50.8
B	36.00"	91.4
C	9.42"	23.9
D	7.80"	19.8
E	4.98"	12.6

7 inch touch screen

WR10

Flowmeter

Turbidity Sensor

Isolation Valve

Water Outlet 3/4" ID

Drain Valve 3/8" OD

Water Inlet 1/4" OD

APNTU Series Controller Dimensions

Fuse
Cable gland
Power socket
Power switch
7 inch touchscreen

Installation Method 1

Dim	Inch	cm
F	7.48"	19.0
G	14.96"	38.0
H	7.42"	18.85
I	13.78"	35.0
J	6.02"	15.4
K	16.22"	41.2
L	8.5"	21.6
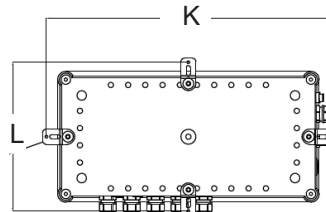
APNTU Turbidity Analyzer Panel

Model Number

APNTU	Turbidity Analyzer Panel
	Includes: TS10 7" Touchscreen Display, WR-10 Single Sensor Flow Reservoir, UT700 Turbidity Sensor, Assembled Panel with Flowmeter, 110VAC Power Cord.

- Power Requirement 96-260 VAC / 50-60 Hz: 10A Fuse: 200W

- CE, RoHS, EPA-180.1/334.0

UT700 Turbidity Sensor

WR10 Single Sensor Flow Reservoir Assy $

TS10 7" Display Terminal

CAL700 Calbration Kit

AP-MA10-CR 10' Cable Extension (for CAL700 Kit)

500ml Turbidity Calibration Standard*

**Flowmeter, F-440
(71010-949)**
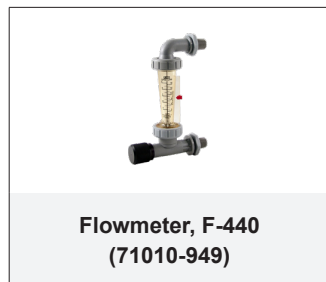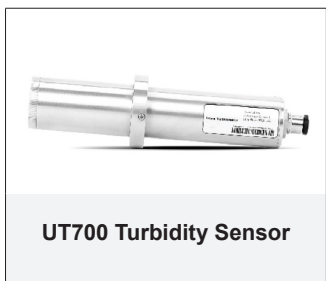
*500ml 10 NTU Calibration Standard (90008-973)
*500ml 20 NTU Calibration Standard (90008-974)
Sensor Cleaning Solution, 500 mL (90008-988)
AP-MA1.5-CR 1.5 meter Short Cable - 8Pin x Flying leads (90008-954)

CE   ISO 9001:2015 CERTIFIED   SINCE Quality 1957   MADE IN THE USA