

# 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

### 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



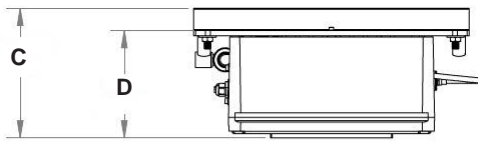
# Engineering Specifications

<b>Item</b>	APNTU
<b>Turbidity Wavelength</b>	Warm White
<b>Light Source</b>	LED
<b>Turbidity Dual Range</b>	0.001 – 10 / 10 - 40.00 NTU
<b>Turbidity Accuracy</b>	+/- 0.005 NTU or 2% <10NTU
<b>Turbidity Repeatability</b>	+/- 0.001 NTU or 0.5% <10NTU
<b>Measurement Accuracy</b>	0.001 NTU or $\pm$ 1% Full Scale
<b>Minimum Resolution</b>	0.001 NTU
<b>Response time</b>	4s after immersion - Turbidity
<b>Compliance</b>	EPA-180.1
<b>Measurement Interval</b>	Continuous Measurement
<b>Display</b>	7-inch LCD Color Industrial Capacitive Touch Screen
<b>Storage Capacity</b>	Built-In 4GB of Ram for Storing up to 1-Million Data/Event Records
<b>Power Requirement</b>	96-260VAC / 50-60 Hz; 10A Fuse; 200 W
<b>Output</b>	2 x 4-20 mA / RS-485 Modbus - RTU / Modbus TCP
<b>Input</b>	2 x 4-20 mA / RS-485 Modbus - RTU
<b>USB</b>	1 x USB host, for data downloading and screen upgrade
<b>Internet</b>	RJ-45 socket, Modbus-TCP
<b>Panel Operational Temperature</b>	40 – 113°F (4-45 °C)
<b>Storage Temperature</b>	Instrument: -4 – 131°F (-20 – 55°C) / Sensors 32 – 122°F (0 – 50°C)
<b>Sample Water Temperature</b>	40 – 104°F (4-40°C)
<b>Sample Water Pressure</b>	7.25 – 30 psi (0.05 – 0.2MPa)
<b>Installation</b>	WR10 Self-Regulating Flow Reservoir w/Rotameter & Isolation Valve - Included
<b>WR10 Minimum Flow Rate</b>	3.1 g/h (200 mL/minute)
<b>WR10 Maximum Flow Rate</b>	6.2 g/h (400 mL/minute)
<b>WR10 Sample Inlet</b>	1/4 - inch OD
<b>WR10 Sample Outlet</b>	3/4 - inch ID - To Drain
<b>WR10 Drain</b>	1/2 - inch NPT
<b>Rating</b>	IP-65 Panel-Display / IP-67 Sensors
<b>Regulation</b>	CE / RoHS
<b>Relative Humidity</b>	20% - 90% (No Condensation)
<b>Altitude</b>	<6,561 feet (<2,000 Meter)
<b>Dimensions (HxWxD)</b>	Panel 36.00 H x 20.00 W x 9.42 D inches
<b>Approximate Product Weight</b>	33 lbs
<b>Shipping Dimensions</b>	42" x 26" x 16" (1067H x 661W x 407D mm)

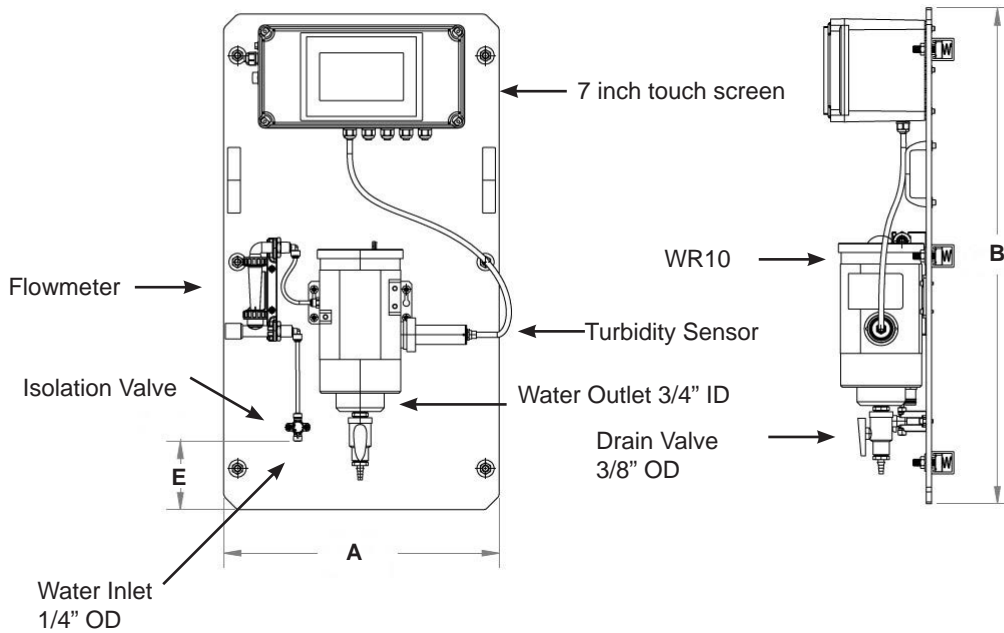
## Features

- 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 of the sensor while providing a large buffer capacity to mitigate pressure fluctuations.

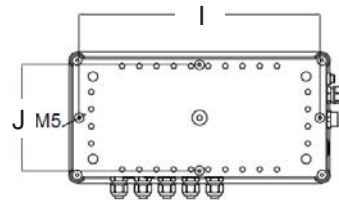
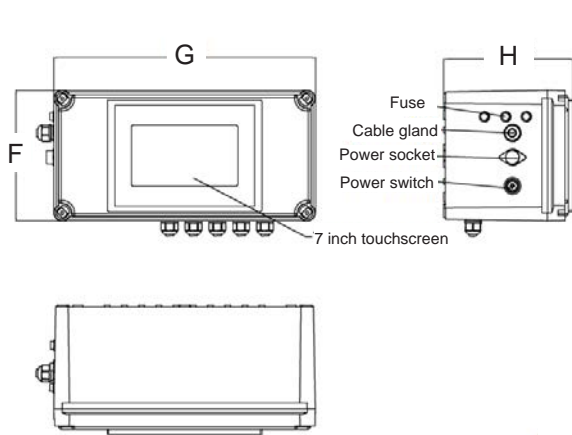
## APNTU Series Panel Dimensions



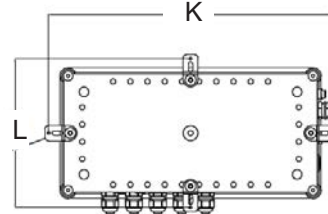
Dim	Inch	cm
A	20.00"	50.8
B	36.00"	91.4
C	9.42"	23.9
D	7.80"	19.8
E	4.98"	12.6



## APNTU Series Controller Dimensions

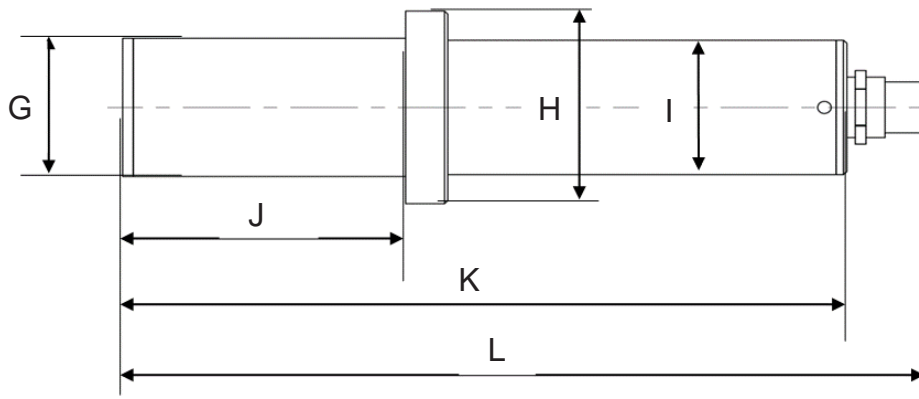


Installation Method 1



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

## UT700 Turbidity Sensor Dimensions



Dim	Inch	cm
G	1.44"	3.66
H	2.0"	5.1
I	1.38"	3.5
J	2.63"	6.68
K	6.73"	17.1
L	7.44"	18.9

### Order Information

APNTU Drinking Turbidity Analyzer for EPA-180.1 Compliant Markets

APNTU

### Optional / Replacement Accessories

UT700 Ultra-Low Turbidity Sensor (Warm White LED 0.000-40.00 NTU)

UT700

WR10 Single Sensor Flow Reservoir Assembly

WR10