Lovibond® Water Testing

Tintometer® Group



PTV1000 Process Turbidimeter with Ethernet; White Light Source, EPA

Process Turbidity Simplified



- Online Turbidimeter approved for EPA reporting purposes
- Touchscreen display eliminates need for a separate controller
- On-screen instructions for routine processes
- Simplified calibration process

Part Number: 6135623

Process Simplified - A New Approach

Details Matter. The development of the PTV Series considered every aspect of process turbidity workflow - from installation and setup; daily measurement and control; routine procedures such as calibration, verification and maintenance; to data collection and management.

Smart User Interface - Rethink the Controller

We've replaced the need for a traditional controller with the familiar interface of a smart device. By utilizing a mobile device app, the user experience is enhanced by allowing quick and easy data viewing, calculation of statistics and access to operator instructions and useful tips.

Designed to Save

Save time, money and water by using the PTV system. These instruments are optimized for drinking water applications with unsurpassed low range accuracy (below 1 NTU). It has a variety of features that help users save.

Regulatory Compliant

The PTV Series has instruments that meet EPA and ISO regulatory requirements.

Fluidics Manager

The Fluidics Manager is an additional accessory that streamlines sample flowing into and out of the instrument. This eliminates the need to install and maintain separate devices to control sample entering and exiting the sensor.

Panel Mounting System

A Place for Everything - The Panel Mount is an additional accessory that aids in the installation of key instrument components and accessories.

Two Ways to Interface

Touchscreen Interface - All PTV Series instruments are supplied with an integrated touchscreen. All measurement settings and routine functions such as calibration can be managed directly with the touchscreen without the need for additional devices.

AquaLXP™ Interface - The AquaLXP™ app is an enhanced version of the touchscreen. In addition to being able to perform all of the functions as the touchscreen, users have access to animated instructions of all procedures, advanced data analysis and statistics tools, complete maintenance and repair logs as well as the comfort of using a familiar device.

Wet Standards - for Calibration & Verification

T-CAL Turbidity Standards from Lovibond® Tintometer® are primary standards that are US EPA and ISO compliant.

When you combine our T-CAL Turbidity Standards and our T-CALplus™ packaging, turbidity standards have never been easier to

Industry

Municipalities

Application

Drinking Water Treatment

PTV1000 Process Turbidimeter with Ethernet; White Light Source, EPA

The PTV1000 Process Turbidimeter is optimized for monitoring filter effluent in a regulatory environment. White Light and IR LED light sources are available.

The instruments are designed to consider every aspect of an operators' work flow with an emphasis on simplicity and accuracy.

Measuring Range

| Test Name | Measuring Range |
|-----------|------------------|
| Turbidity | 0.0001 - 100 NTU |

Technical Data

| Optics | White LED |
|---|--|
| Accuracy | ±2 Percent of reading or smaller 0.015 / 15 mNTU |
| Display | Touchscreen |
| Stray Light | smaller 0.015 / 15 mNTU |
| Displayed Resolution | up to 0.0001 NTU (range dependent) or 5 digits displayed |
| Repeatability / Precision | better than 1% at 1 NTU |
| Initial Response | 10 % change: 15 seconds @ max flow |
| Step Response | (T-90), less than 240 seconds at 200 ml/min. at 1 NTU |
| Signal Averaging | User Selectable: 1, 3, 6, 10, 30, 60, and 90 seconds, defaulted to 30 seconds |
| Sample Temperature | 0 - 50 °C (32 to 122 °F) max sample temperature: 70 °C (158 °F) |
| Sample Flow | 30 to 500 ml/min, optimal flow: 50 to 80 ml/min |
| Sample Inlet Connection | 1/4-inch NPT female, 1/4-inch compression fitting tubing (included) |
| Sample Outlet (Drain) Connection | 3/8-inch NPT female, 3/8-inch hose barb tubing (included) |
| Power Requirements | 90 to 264 VAC, 50/60 Hz. Auto Select |
| Sample Inlet Tubing | 1/4-inch OD or 6 mm OD |
| Sample Oulet Tubing | 3/8-inch OD or 9 mm OD |
| Turbidimeter Body Drain | Quick connect with integrated check valve |
| Calibration | One Point Calibration at 5.0 or 20 NTU with any regulatory approved formazin |
| Analog Output: Measurement Module | 1 selectable 0 - 20 mA or 4 - 20 mA; output span programmable over any portion of the measurement range |
| Analog Output: Junction Box | 1 selectable 0 - 20 mA or 4 - 20 mA; output span programmable over any portion of the measurement range |
| Alarms | Three set-point alarms, each equipped with an SPDT relay with unpowered contacts rated 5 A resistive load at 230 V, AC |
| Digital protocol | Modbus TCP (Ethernet) |
| Enclosure Type: | |
| Junction Box | Fiber reinforced polyester |
| Junction Box Enclosure Rating: Junction Box | Fiber reinforced polyester IP 66 |
| Enclosure Rating: | · • |
| Enclosure Rating: Junction Box | IP 66 Listed by TÜV Rheinland to UL 61010A-1: Certified by TÜV Rheinland to CSAC22.2 No. 1010.1: CE |

| | (Optional). Junction Box - Direct mounting to any vertical surface or panel (Optional) | |
|---------------------------|--|--|
| Method of Verification | Wet Standards or dry verification device | |
| Limit of Determination | 0.0005 NTU | |
| Limit of Detection | 0.005 NTU | |
| Flow Indicator | no | |
| Portability | Process | |
| Environmental Conditions | 5 - 50 °C (41 to 122 °F), rel. humidity 5 - 95 % (Noncondensing) | |
| Stock Conditions | -40 - 60 °C (-40 - 140 °F) | |
| Compliance | EPA | |
| Dimensions | 158.5 x 340.4 x 334.5 mm | |

Accessories

| Title Part Number Assembly, Float 19806-054 Assembly, Fluidics Manifold 19806-056 Constant Head Height Regulator 19806-058 Kit, Fittings & Tubing 19806-059 T-CALplus Calibration Tube Assembly (Blue Tube)- 19806-062 Cleaning Tube Assembly (Black Tube) 19806-072 Kit, Bubble trap cover Replacement (comes with O-ring) 19806-077 Kit, Beam dump Replacement (comes with O-ring), for PTV 19806-078 1000, PTV 2000 19806-078 Kit, Knob for bubble trap 19806-080 Kit, Drain fitting 19806-080 Kit, Drain cover 19806-081 Mounting Cleat, for PTV 1000, PTV 2000 19806-082 Kit, Flow body assembly, with Flow Meter 19806-083 Kit, Flow body assembly, without Flow Meter 19806-084 Kit, Illuminator Lens Sub Assembly 19806-085 Kit, Installation Connectors 19806-086 Rotometer, 25 to 100 mL/min 19806-086 Brass mounting cup assembly 19806-088 Brass mounting cup assembly 19806-106 Dry Verification STD, High Range (> 10 NTU) |
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| Assembly, Fluidics Manifold Constant Head Height Regulator Kit, Fittings & Tubing T-CALplus Calibration Tube Assembly (Blue Tube)- Cleaning Tube Assembly (Black Tube) Rit, Bubble trap cover Replacement (comes with O-ring) Fit, Beam dump Replacement (comes with O-ring), for PTV 19806-078 Kit, Beam dump Replacement (comes with O-ring), for PTV 19806-079 Kit, Knob for bubble trap 19806-080 Kit, Drain fitting 19806-081 Mounting Cleat, for PTV 1000, PTV 2000 Kit, Flow body assembly, with Flow Meter 19806-082 Kit, Flow body assembly, without Flow Meter 19806-084 Kit, Illuminator Lens Sub Assembly 19806-085 Kit, Installation Connectors 19806-086 Rotometer, 25 to 100 mL/min 19806-087 Panel, Instrument and Sample Management 19806-106 Dry Verification STD, High Range (> 10 NTU) 19806-110 Dry Verification STD, Low Range (< 10 NTU) 19806-111 Fuse, 1.6A, 250VAC Illuminator O-ring 19806-429 O-ring, for Beam Dump 19806-434 Fitting, Quick Connect, Male 19806-436 |
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| 10000 110 |
| Lanyard Strap 19806-448 |
| Fitting, Quick Connect, Female 19806-449 |
| Plug for Conduit holes 19806-487 |
| Valve; 1/4" Tubing Quick Connect 19806-494 |
| Tablet Wall Mount 19806-521 |
| Strain Relief, 3/8" NPT 19806-527 |
| Tubing, 3/8" ID x 1/2" OD x 1/16" Wall, Clear PVC 19806-531 |
| Seal, Bubble trap cover, -241 - 19806-554 |
| Insert, Measurement Module Holder, Instrument Panel 19806-570 |
| Measurement Module, PTV 1000 IR 19806-700 |
| Measurement Module, PTV 1000 IR, with Bluetooth® 19806-701 |
| Pad, Application, Microfiber, w/pocket 19806-803 |
| Rinse bottle, 500 ml 420056 |
| T-CAL <i>plus</i> ® -Standard, 0.30 NTU, Standard for Verification 48010035 |
| T-CAL <i>plus</i> ® -Standard, 1.00 NTU, Standard for Verification 48010135 |
| T-CAL <i>plus</i> ® -Standard, 5.00 NTU, Standard for Calibration 48010235 |
| T-CAL <i>plus</i> ®-Standard, 20 NTU, Standard for Calibration 48010335 |

| Title | Part Number |
|------------------------------------|----------------|
| T-CAL®-Standard, 0,30 NTU, 500 ml | 48011050 |
| T-CAL®-Standard, 1,00 NTU, 500 ml | 48011150 |
| T-CAL®-Standard, 5,00 NTU, 500 ml | 48012250 |
| T-CAL®-Standard, 20,00 NTU, 500 ml | 48012350 |
| Cleaning Solution | 54010435 |
| Detergent Solution | 54011010 |
| Scale Remover | 54013003 |

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