Lovibond[®] Water Testing Tintometer[®] Group



PTV1000 Process Turbidimeter with Ethernet & Bluetooth®; White Light Source, EPA

Process Turbidity Simplified



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.

_	Online Turbidimeter approved for EPA
	reporting purposes

- Compatible with AquaLXP mobile app
- Easy installation & commissioning
- Simplified calibration process

Part Number: 6135624

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 use.

Industry

Municipalities

Application

Drinking Water Treatment

PTV1000 Process Turbidimeter with Ethernet & Bluetooth®; 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
Enclosure Rating: Junction Box	IP 66
Safety	Listed by TÜV Rheinland to UL 61010A-1: Certified by TÜV Rheinland to CSAC22.2 No. 1010.1: CE Certified by TÜV Rheinland to EN 61010-1
Immunity	CE certified by TÜV Rheinland to EN 61326 (Industrial Levels)
Mounting Hardware	Turbidimeter Sensor - Slotted Mounting Bracket that can be affixed to any vertical surface or panel

	(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 % (Non- condensing)
Stock Conditions	-40 - 60 °C (-40 - 140 °F)
Compliance	EPA
Dimensions	158.5 x 340.4 x 334.5 mm

Accessories

Assembly, Float 19806-054 Assembly, Fluidics Manifold 19806-056 Constant Head Height Regulator 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) 19806-072 Kit, Beam dump Replacement (comes with O-ring), for PTV 19806-078 Kit, Nob for bubble trap 19806-079 Kit, Nob for bubble trap 19806-079 Kit, Drain fitting 19806-080 Mounting Cleat, for PTV 1000, PTV 2000 19806-080 Kit, Flow body assembly, with Flow Meter 19806-083 Kit, Flow body assembly, without Flow Meter 19806-086 Kit, Illuminator Lens Sub Assembly 19806-086 Rotometer, 25 to 100 mL/min 19806-086 Paras, Instrument and Sample Management 19806-087 Paras, Instrument and Sample Management 19806-062 Dry Verification STD, Low Range (< 10 NTU) 19806-407 Or-ring, Grae Darump 19806-407 Or-ring, Kaer Drain cover 19806-422 Or-ring, Kaer Drain cover 19806-422 <th>Title</th> <th>Part Number</th>	Title	Part Number
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 19806-079 Kit, Nob for bubble trap 19806-079 Kit, Toain fitting 19806-080 Kit, Toain cover 19806-080 Kit, Flow body assembly, with Flow Meter 19806-083 Kit, Flow body assembly, with Flow Meter 19806-086 Kit, Installation Connectors 19806-086 Rotometer, 25 to 100 mL/min 19806-087 Panel, Instrument and Sample Management 19806-086 Dry Verification STD, Low Range (> 10 NTU) 19806-106 Dry Verification STD, Low Range (> 10 NTU) 19806-407 O-ring, for Beam Dump 19806-407 Tubing, 1/4" OD, black, Polyethylene 19806-436 Iluminator O-ring 19806-416 Tubing, 1/4" OD, black, Polyethylene 19806-436	Assembly, Float	19806-054
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, Drain fitting 19806-079 Kit, Drain cover 19806-080 Kit, Drain cover 19806-080 Kit, Flow body assembly, with Flow Meter 19806-083 Kit, Flow body assembly, without Flow Meter 19806-083 Kit, Installation Connectors 19806-086 Rotometer, 25 to 100 mL/min 19806-086 Paras, Instrument and Sample Management 19806-086 Dry Verification STD, High Range (> 10 NTU) 19806-106 Dry Verification STD, Low Range (< 10 NTU)	Assembly, Fluidics Manifold	19806-056
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Dry Verification STD, High Range (> 10 NTU)19806-110Dry Verification STD, Low Range (< 10 NTU)	Panel, Instrument and Sample Management	19806-088
Dry Verification STD, Low Range (< 10 NTU)19806-111Fuse, 1.6A, 250VAC19806-206Illuminator O-ring19806-407O-ring, for Beam Dump19806-416Tubing, 1/4" OD, black, Polyethylene19806-429O-ring, Rear Drain cover19806-434Fitting, Quick Connect, Male19806-436Lanyard Strap19806-448Fitting, Quick Connect, Female19806-449Plug for Conduit holes19806-494Tablet Wall Mount19806-521Strain Relief, 3/8" NPT19806-527Tubing, 3/8" ID x 1/2" OD x 1/16" Wall, Clear PVC19806-554Insert, Measurement Module Holder, Instrument Panel19806-700Measurement Module, PTV 1000 IR19806-701Pad, Application, Microfiber, w/pocket19806-803Rinse bottle, 500 ml420056T-CAL <i>plus®</i> -Standard, 0.30 NTU, Standard for Verification48010135T-CAL <i>plus®</i> -Standard, 5.00 NTU, Standard for Calibration48010235	Brass mounting cup assembly	19806-106
Fuse, 1.6A, 250VAC 19806-206 Illuminator O-ring 19806-407 O-ring, for Beam Dump 19806-416 Tubing, 1/4" OD, black, Polyethylene 19806-429 O-ring, Rear Drain cover 19806-434 Fitting, Quick Connect, Male 19806-436 Lanyard Strap 19806-448 Fitting, Quick Connect, Female 19806-448 Plug for Conduit holes 19806-487 Valve; 1/4" Tubing Quick Connect 19806-487 Valve; 1/4" Tubing Quick Connect 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 19806-700 Measurement Module, PTV 1000 IR 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, 5.00 NTU, Standard for Calibration 48010235	Dry Verification STD, High Range (> 10 NTU)	19806-110
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O-ring, for Beam Dump 19806-416 Tubing, 1/4" OD, black, Polyethylene 19806-429 O-ring, Rear Drain cover 19806-434 Fitting, Quick Connect, Male 19806-436 Lanyard Strap 19806-448 Fitting, Quick Connect, Female 19806-448 Fitting, Quick Connect, Female 19806-448 Fitting, Quick Connect, Female 19806-449 Plug for Conduit holes 19806-447 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 19806-527 Tubing, 3/8" ID x 1/2" OD x 1/16" Wall, Clear PVC 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, 5.00 NTU, Standard for Calibration 48010235 <td>Fuse, 1.6A, 250VAC</td> <td>19806-206</td>	Fuse, 1.6A, 250VAC	19806-206
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Fitting, Quick Connect, Male 19806-436 Lanyard Strap 19806-448 Fitting, Quick Connect, Female 19806-449 Plug for Conduit holes 19806-487 Valve; 1/4" Tubing Quick Connect 19806-487 Valve; 1/4" Tubing Quick Connect 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 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, 5.00 NTU, Standard for Calibration 48010235	Tubing, 1/4" OD, black, Polyethylene	19806-429
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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 19806-527 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 19806-701 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, 5.00 NTU, Standard for Calibration 48010235	Fitting, Quick Connect, Male	19806-436
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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-CALplus® -Standard, 0.30 NTU, Standard for Verification 48010035 T-CALplus® -Standard, 5.00 NTU, Standard for Calibration 48010235	Plug for Conduit holes	19806-487
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-CALplus® -Standard, 0.30 NTU, Standard for Verification 48010035 T-CALplus® -Standard, 5.00 NTU, Standard for Calibration 48010235	Valve; 1/4" Tubing Quick Connect	19806-494
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, 5.00 NTU, Standard for Calibration 48010235	Tablet Wall Mount	19806-521
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	Strain Relief, 3/8" NPT	19806-527
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