

# Lovibond® Water Testing

## Tintometer® Group



## PTV1000 Process Turbidimeter with Flow Indicator, Modbus & Bluetooth®; White Light Source, EPA

Process Turbidity Simplified



- Online Turbidimeter approved for EPA reporting purposes
- Compatible with AquaLXP mobile app
- Integrated flow indicator ensures sample is flowing

Part Number: 6134694

### 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 use.

Industry

Chemical Industry | Food and Beverage Industry | Industries Others | Municipalities | Pharmaceutical Industry | Pool Public | Power and Energy

Application

Drinking Water Treatment

PTV1000 Process Turbidimeter with Flow Indicator, Modbus & 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
Interfaces	Bluetooth
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 Outlet 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 RS485/RS232

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	yes
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

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 1000, PTV 2000	19806-078
Kit, Knob for bubble trap	19806-079
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	19806-087
Panel, Instrument and Sample Management	19806-088
Brass mounting cup assembly	19806-106
Dry Verification STD, High Range ( > 10 NTU)	19806-110
Dry Verification STD, Low Range ( < 10 NTU)	19806-111
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	19806-449
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

<b>Title</b>	<b>Part Number</b>
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 <sup>plus</sup> ® -Standard, 0.30 NTU, Standard for Verification	48010035
T-CAL <sup>plus</sup> ® -Standard, 1.00 NTU, Standard for Verification	48010135
T-CAL <sup>plus</sup> ® -Standard, 5.00 NTU, Standard for Calibration	48010235
T-CAL <sup>plus</sup> ® -Standard, 20 NTU, Standard for Calibration	48010335
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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