Lovibond[®] Water Testing Tintometer[®] Group



PTV 6000 with Ethernet & Bluetooth; Laser

Next Generation of On-line Turbidity Measurement



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 optimised 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.

	Smart Interface - Rethink the Controller
	Simplified and Streamlined Processes
—	Innovative, Low Maintenance Design
_	Unsurpassed Accuracy for low-level effluent measurement

Part Number: 6155624

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

PTV 6000 with Ethernet & Bluetooth; Laser

Turbidity is the key measurement parameter for determining drinking water quality.

To develop this instrument, Lovibond[®] Tintometer[®] assembled a team of globally recognized turbidity experts. We tasked them with creating a new process instrument that addresses all of the issues customers struggle with while using their current turbidity systems. These advancements, along with the addition of state-of-the-art communications and user interface make the PTV 1000 and PTV 2000 the next generation of process turbidimeters.

Technical Data

Optics	Laser
Accuracy	± 2 % of reading from 0 to 10 NTU ± 4 % of reading between 10 to 100 NTU
Stray Light	smaller 0.005 / 5 mNTU
Displayed Resolution	up to 0.0001 NTU (range dependent) or 5 digits displayed
Repeatability / Preci- sion	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 max sample temperature: 70 °C
Sample Flow	30 to 500 ml/min, optimal flow: 50 to 80 ml/min
Sample Inlet Connec- tion	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 (in- cluded)
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 reg- ulatory approved formazin
Analog Output: Mea- surement Module	1 selectable 0 - 20 mA or 4 - 20 mA; output span programmable over any portion of the measurement range
Analan Outerute I	4 selecteble 0, 20 mA and 20 mA subsut success
Analog Output: Junc- tion Box	1 selectable 0 - 20 mA or 4 - 20 mA; output span programmable over any portion of the measurement range
	programmable over any portion of the measurement
tion Box	programmable over any portion of the measurement range Three set-point alarms, each equipped with an SPDT relay with unpowered contacts rated 5 A re-
tion Box Alarms Enclosure Type:	programmable over any portion of the measurement range Three set-point alarms, each equipped with an SPDT relay with unpowered contacts rated 5 A re- sistive load at 230 V, AC
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tion Box Alarms Enclosure Type: Junction Box Enclosure Rating: Junction Box Safety Immunity Emissions Mounting Hardware Method of Verifica- tion Limit of Determina- tion	programmable over any portion of the measurement rangeThree set-point alarms, each equipped with an SPDT relay with unpowered contacts rated 5 A re- sistive load at 230 V, ACFiber reinforced polyesterIP 66Listed by TÜV Rheinland to UL 61010A-1: Certified by TÜV Rheinland to CSAC22.2 No. 1010.1: CE Certified by TÜV Rheinland to EN 61010-1CE certified by TÜV Rheinland to EN 61326 (Indus- trial Levels)Class A: EN 61326, CISPR 11, FCC Part 15, Cana- dian Interference-Causing Equipment Regulation ICES-003Turbidimeter Sensor - Slotted Mounting Bracket that can be affixed to any vertical surface or panel (Op- tional). Junction Box - Direct mounting to any vertical surface or panel (Optional)Wet Standards or dry verification device0.0001 NTU
tion Box Alarms Enclosure Type: Junction Box Enclosure Rating: Junction Box Safety Immunity Emissions Mounting Hardware Method of Verifica- tion Limit of Determina- tion Limit of Detection	programmable over any portion of the measurement rangeThree set-point alarms, each equipped with an SPDT relay with unpowered contacts rated 5 A re- sistive load at 230 V, ACFiber reinforced polyesterIP 66Listed by TÜV Rheinland to UL 61010A-1: Certified by TÜV Rheinland to CSAC22.2 No. 1010.1: CE Certified by TÜV Rheinland to EN 61010-1CE certified by TÜV Rheinland to EN 61326 (Indus- trial Levels)Class A: EN 61326, CISPR 11, FCC Part 15, Cana- dian Interference-Causing Equipment Regulation ICES-003Turbidimeter Sensor - Slotted Mounting Bracket that can be affixed to any vertical surface or panel (Op- tional). Junction Box - Direct mounting to any vertical surface or panel (Optional)Wet Standards or dry verification device0.0001 NTU0.001 NTU
tion Box Alarms Enclosure Type: Junction Box Enclosure Rating: Junction Box Safety Immunity Emissions Mounting Hardware Method of Verifica- tion Limit of Determina- tion Limit of Detection Flow Indicator	programmable over any portion of the measurement rangeThree set-point alarms, each equipped with an SPDT relay with unpowered contacts rated 5 A re- sistive load at 230 V, ACFiber reinforced polyesterIP 66Listed by TÜV Rheinland to UL 61010A-1: Certified by TÜV Rheinland to CSAC22.2 No. 1010.1: CE Certified by TÜV Rheinland to EN 61010-1CE certified by TÜV Rheinland to EN 61326 (Indus- trial Levels)Class A: EN 61326, CISPR 11, FCC Part 15, Cana- dian Interference-Causing Equipment Regulation ICES-003Turbidimeter Sensor - Slotted Mounting Bracket that can be affixed to any vertical surface or panel (Op- tional). Junction Box - Direct mounting to any vertical surface or panel (Optional)Wet Standards or dry verification device0.0001 NTUno

Protection Class	IP 65
Compliance	EPA
Dimensions	158.5 x 340.4 x 334.5 mm
Weight	5 kg

Accessories

Title	Part Num- ber
Kit, Bubble Trap Cover and O-ring, for PTV 6000	19806-048
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, Knob for bubble trap	19806-079
Kit, Drain fitting	19806-080
Kit, Drain cover	19806-081
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
Mounting Cleat with Interlock, for PTV 6000	19806-119
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
Insert, Measurement Module Holder, Instrument Panel	19806-570
Measurement Module, PTV 6000	19806-706
Measurement Module, PTV 6000 with, with Bluetooth®	19806-707
Kit, Beam Dump Guard / Interlock, Fitting & O-rings, for PTV 6000	19806-716
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
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	54010435
Scale Remover	54013003
	54013003

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Technical changes without notice

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