

Lovibond® Water Testing Tintometer® Group



PTV1000 Process Turbidimeter with Flow Indicator; IR Light Source, ISO

With Flow Indicator; IR Light Source



- Online Turbidimeter for ISO 7027 compliance
- Touchscreen display eliminates need for a separate controller
- Integrated flow indicator ensures sample is flowing
- Optimized for grab sample comparison to laboratory instrument

Part Number: 6124683

See Changes Fast

In filter effluent turbidity measurement, slight changes in turbidity can be used to optimize the performance of the filter and potentially the treatment process upstream. The small volume flow body combined with our optical system helps operators see changes in turbidity quickly allowing them to react to changes in their process efficiently.

Simplified Workflows

In low level turbidity monitoring, small differences in how key processes are performed can lead to a big difference in results.

In order to help operators, work efficiently and consistently, all PTV Series instruments walk the user through key processes like calibration and verification.

Easy Calibration & Verification

Lovibond® T-CAL^{plus}® standards are primary standards that meet US EPA and ISO requirements for calibration. This self-contained system allows operators to follow best practice techniques, without coming into contact with formazin solution. Standards are available in a variety of concentrations to meet routine calibration and verification requirements.

Save Water

Stop throwing finished water away! The optimal flow rate of the PTV Series is 40 - 120 ml per minute, while many other competitive instruments require 500 ml per minute or more. This difference in required flow rates translates to over 1 million gallons of finished water saved over the life of a single instrument, without compromising on the limit of detection or accuracy.

Rethink the Controller

Every PTV Series instrument has an integrated touchscreen display, so there is no need to install a separate controller. Information relevant to daily controls and processes are always clearly displayed on the screen. With the optional Bluetooth® feature, operators get access to our AqualXP app, which is an enhanced version of the touchscreen with tech tips and animated instructions.

Industry

Municipalities

Application

Drinking Water Treatment

PTV1000 Process Turbidimeter with Flow Indicator; IR Light Source, ISO

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	Infrared light
Accuracy	± 2 % of reading from 0 to 10 NTU ± 4 % of reading between 10 to 100 NTU
Display	Touchscreen
Stray Light	smaller 0.005 / 5 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	4-20 mA
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, rel. humidity 5 - 95 % (Non-condensing)
Stock Conditions	-40 - 60 °C (-40 - 140 °F)
Compliance	ISO 7027
Dimensions	158.4 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
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 ^{plus} ® -Standard, 0.30 NTU, Standard for Verification	48010035
T-CAL ^{plus} ® -Standard, 1.00 NTU, Standard for Verification	48010135

Title	Part Number
T-CAL ^{plus} ® -Standard, 5.00 NTU, Standard for Calibration	48010235
T-CAL ^{plus} ® -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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