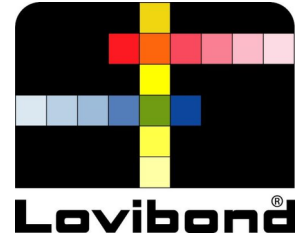


Lovibond® Water Testing

Tintometer® Group



PTV1000 Process Turbidimeter with Bluetooth®; IR Light Source, ISO

Process Turbidity Simplified



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.

- Online Turbidimeter for ISO 7027 compliance
- Compatible with AquaLXP mobile app
- Low maintenance design saves operator's time
- Simplified calibration process

Part Number: 6125684

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 Bluetooth®; IR Light Source, ISO

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.

The PTV Series is optimized for monitoring filter effluent in a regulatory environment. By focusing on helping operators manage routine workflows, the instruments deliver an easy to use system with unsurpassed accuracy when monitoring low levels of turbidity.

Every instrument has an integrated touchscreen display, which makes it easy to see current turbidity values and to assess the status of the instrument. Outputs and alarm status are always clearly visible, and can alert operators to an issue.

The flow body is easy to clean - there are no "hooks and crannies" where particles can settle. The body can be easily drained for cleanings or calibrations with quick-connect fixtures and collecting a grab sample for verification does not require the operator to disconnect tubing to access the sample. The low volume flow body

allows changes in turbidity levels to be seen faster than competitive instruments.

All models feature a solid state light source which means there are no bulbs to change over the life of the instrument. The optical design has eliminated the chance for condensation and fogging, without the use of desiccants, and there is no risk of fouling the optical system with the presence of iron and manganese.

The PTV Series also makes it easier than ever to access and analyze data. Every logged reading, calibration and verification associated with a measurement module over its lifetime is stored locally, ensuring proof of routine data is never deleted or unavailable. Operators are able to access the information directly from the instrument, so there is no need to locate maintenance logs or pull the data from a SCADA system.

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
Interfaces	Bluetooth
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	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	ISO 7027
Dimensions	158.4 x 340.4 x 334.5 mm

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-CALplus® -Standard, 0.30 NTU, Standard for Verification	48010035
T-CALplus® -Standard, 1.00 NTU, Standard for Verification	48010135
T-CALplus® -Standard, 5.00 NTU, Standard for Calibration	48010235
T-CALplus® -Standard, 20 NTU, Standard for Calibration	48010335
T-CAL®-Standard, 0,30 NTU, 500 ml	48011050

Title	Part Number
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

Tintometer GmbH

Lovibond® Water Testing
Schleefstraße 8-12
44287 Dortmund
Tel.: +49 (0)231/94510-0
sales@lovibond.com
www.lovibond.com
Germany

The Tintometer Limited

Lovibond House
Sun Rise Way
Amesbury, SP4 7GR
Tel.: +44 (0)1980 664800
sales@lovibond.uk
www.lovibond.com
UK

Tintometer China

9F, SOHO II C.
No.9 Guanghualu,
Chaoyang District,
Beijing, 100020
Customer Care China Tel.: 4009021628
Tel.: +86 10 85251111 Ext. 330
Fax: +86 10 85251001
chinaoffice@tintometer.com
www.lovibond.com
China

Tintometer South East Asia

Unit B-3-12, BBT One Boulevard,
Lebuh Nilam 2, Bandar Bukit Tinggi,
Klang, 41200, Selangor D.E
Tel.: +60 (0)3 3325 2285/6
Fax: +60 (0)3 3325 2287
lovibond.asia@tintometer.com
www.lovibond.com
Malaysia

Tintometer Brazil

Caixa Postal: 271
CEP: 13201-970
Jundiaí – SP
Tel.: +55 (11) 3230-6410
sales@lovibond.us
www.lovibond.com.br
Brazil

Tintometer Inc.

6456 Parkland Drive
Sarasota, FL 34243
Tel: 941.756.6410
Fax: 941.727.9654
sales@lovibond.us
www.lovibond.us
USA

Tintometer India Pvt. Ltd.

Door No: 7-2-C-14, 2nd, 3rd & 4th Floor
Sanathnagar Industrial Estate,
Hyderabad, 500018
Telangana
Tel: +91 (0) 40 23883300
Toll Free: 1 800 599 3891/ 3892
indiaoffice@lovibond.in
www.lovibondwater.in
India

Tintometer Spain

Postbox: 24047
08080 Barcelona
Tel.: +34 661 606 770
sales@tintometer.es
www.lovibond.com
Spain