

TD-1000C

HYDROCARBONS IN WATER



- Measures Oil in Water: Continuous on-line monitor measures ppb or ppm oil in water
- Boiler, Cooling System and Environmental Protection with earliest oil leak detection on the market
- UV Fluorescence technology provides highest sensitivity available
- Highest sensitivity = lowest detection limit = earliest warning of oil contamination

The field-proven TD-1000C is rugged, and reliable with the lowest maintenance in the industry. Its fluorescence sensor technology provides high accuracy and repeatability as well as the earliest leak detection available. It delivers the same remarkable performance expected of all Turner Designs Hydrocarbon Instruments' products.

It comes to you complete and ready to be installed in your system with a pressurized side stream from the process. It includes 316SS mounting bracket and isolation valves. The sample remains pressurized for easy return to the process or to atmospheric drain. An on-board Cell Condition Monitor alerts operations if the measurement cell requires cleaning. Includes standard alarm relays and 4-20mA output for remote monitoring.

TURNER DESIGNS
Hydrocarbon Instruments

TD-4100, TD-4100 C, TD-4100 XDC, TD-3100, TD-500D

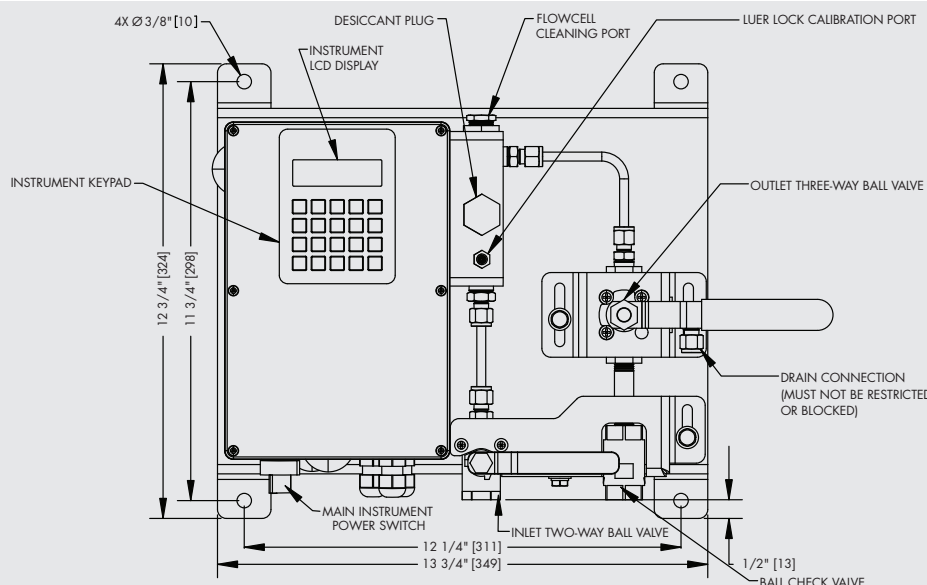
TD-1000 STEAM CONDENSATE & COOLING WATER MONITOR

SPECIFICATIONS

Applications	Steam Condensate, Boiler Feed, Cooling Water, Clean Water
Operational Principle	UV Fluorescence
Hydrocarbons	Fuel Oil, Crude Oil, Other Fuels and Oils
Detection Range Fuel Oil, Crude Oil	20ppb in Steam Condensate - 500ppm
Response Time	5 seconds spike change, continuous reading
Local Display	PPM, PPB, Or Raw Fluorescence Units (RFU)
Controls	External Touch Pad
Power Requirements	90 - 250 VAC, 5A
Alarms	Solid State AC Relay <i>High Alarm</i> (3A fused, 90 - 250 VAC), 5VDC <i>Cell Condition Alarm</i> , 5VDC System Alarm
Outputs	4-20mA Powered, 500ohm. Max Impedance
Diagnostics	Self Diagnostics, internal failure linked to alarm
Communication Protocols	(Unidirectional Hart, Mod Bus Optional)
Mounting & Plumbing Hardware	316 SS
Plumbing Requirements	See General Arrangement Drawing
Flow Cell Characteristic	Quartz Closed Tube with Cell Condition Monitor and Alarm
Pressurized Sample Return	Yes, or Unpressurized to Drain
Typical Flow Rates	100mL/min to 4L/min
Min / Max Sample Pressure	5psig / 100psig, 0.35barg / 6.9barg
Max Sample Temperature	71°C, 160°F (Sample Cooler is Optional)
Ambient Operating Temperature	32°F - 120°F, 0°C - 49°C
Calibration Stability	+/- 10% over 6 Months
Calibration	Blank / Standard Addition via Syringe Injection Port
Reagents	None
Security	Password Protected
Electronics Cabinet	Non Metallic
Maintenance	Calibration Check, Clean Flow Cell on Alarm
Cleaning Chemicals	Detergents, Dilute HCL, or Solvents (Customer Furnished)
Explosion Proof Options	Gen Purpose Only (Use TD-4100 XDC for Explosion Proof Areas)
Sample Pump	Optional
Certifications	ISO 9001 / 2000 Manufacturing, CE Marked, CUL



Complete and ready to run.



TURNER DESIGNS
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2023 N. Gateway Blvd., Suite 101
Fresno, California 93727 USA

TEL: 559 253 1414

FAX: 559 253 1090

sales@oilinwatermonitors.com

www.oilinwatermonitors.com

World Wide Sales and Service.