

NexTD

THE VALUE OF EXPERIENCE



Protecting the environment from unwanted hydrocarbon discharges, protecting sensitive water treatment systems from unwanted oil contamination and 24/7 monitoring of industrial processes to prevent upsets has been the sole purpose of Turner Designs Hydrocarbon Instruments and its team for over 20 years. Continuous improvement of field measurement, ease of use and reliability has led to the development of our NexTD oil in water monitor. It uses a non-purged explosion proof/flame proof enclosure in 316 stainless or aluminum to CID1 and CI Zone1. The new generation oil in water monitor grew out of the popularity of our industry standard TD-4100 XD E09 powered products and the need to deploy where purge air for explosion protection was not available.

All NexTDs use our popular "E09" firmware package and on-board data logger. See the E09 data sheet for details. They are Ethernet and wireless capable and now are available with more optical choices and configurations for added field flexibility and new applications.



TURNER  **DESIGNS** Hydrocarbon Instruments

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The difficulty in specifying all measurement parameters on new-field applications prior to purchase has meant having to supply the best information available at the time and requiring extended field work during commissioning. With the new NexTD product, all optical systems are "plug and play" with field work during commissioning reduced by over 80%. With Ethernet we can assist from our office, start up and commissioning can be accomplished with technician level assistance.

The NexTD is available with the standard non-contact EZ Access Flow Cell and Bubbletrap with Auto-Valve or the "C" type flow cell for high pressure, clean water applications. Dual-stream sampling is available with separate calibration curves for each sample stream. Clean-in-Place systems for cleaning the complete sample system are available with a variety of configurations. Optional ultrasonic cleaning is available on the C type flow cells.

SPECIFICATIONS with EZ Access Flow Cell

Envelope Dimensions	22" W x 28" D x 70" H [55.9 cm W x 71.1 cm D x 178 cm H]
Weight	300 lbs 316SS, 224 lbs Alum [136 Kg 316SS, 102 Kg Alum] plus accessories
Power Requirements	90 - 240 VAC, 50/60 Hz +/- 10%, 184 W, 1 ph, (24 VDC Optional)
Inlet Connection	½" MNPT (standard) or ½" tube
Outlet Connection	1-1/2" MNPT
Inlet Sample Flowrate	2 - 3 US gallons/min [7.5 - 11.5 L/min], optional sample pump
Inlet Sample Pressure	5 - 20 psig [34 - 136 kPag]
Outlet Sample Pressure	Atmospheric (standard) or optional sample return pump
Sample Temperature	32 - 190 °F [0 - 88 °C] standard, higher temperatures optional
Ambient Temperature	-4 to 131 °F (-20 to 55 °C)
Operational Principle	Fluorescence
Detection Range	1 ppb - 1000 ppm depending upon target hydrocarbon and water quality
Stability	10 % or better over 6 months
Response Time	<10 seconds continuous real - time response
Calibration	Multiple-point linear or non-linear, or uncalibrated. Holds two calibrations (one for each sample stream).
Alarms	Baseline, early warning, high alarm, system-function, local display
Alarm Outputs	Two user-settable, independently-protected dry contact relays
Communication	Standard E09 features with 4-20 mA isolated, 500 ohm impedance, selectable between Loop Powered and Instrument Powered, Ethernet. Optional HART, ModBus
Diagnostics	System failure reports to relay and local display
Security	Two level password protected
Electronics Cabinet	316 stainless steel or aluminum, NEMA 7, IP 66
Explosion Proof	North America: Class I Division 1, Groups B, C, D, T4; ATEX & IECEx: II 2 G Ex d IIB T4 Tamb -20 °C to +60 °C



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