

TD-4100XD GENERAL PURPOSE HYDROCARBONS IN WATER



Now available with standard E09 Electronics Package:

The TD-4100 XD GENERAL PURPOSE monitor is a lower cost version of the industry standard TD-4100 XD and is designed for General Purpose areas (non-explosive atmospheres). It was designed for dirty water applications and uses our standard EZ Access Non-Contact Flowcell for lower maintenance. Field validation is via our CheckPOINT™ solid calibration check standard.

Unique features:

- Fluorescence measurement technology with lowest detection limits available
- Minimal sample conditioning plumbing hardware reduces cost
- Easy calibration with long term stability
- Low maintenance
- User friendly. E09 Electronics Package
- Ruggedized for harsh environments, non-hazardous areas
- Custom configurations and wetted materials



TD-4100XD GENERAL PURPOSE

SPECIFICATIONS



Applications	Steam Condensate, Boiler Feed, Normally Clean Water, Cooling Water, Intake Protection and Dirty Water with Chemical cleaning if needed
Hydrocarbons	Fuel Oil, Crude Oil, Other Fuels and Lubricating Oils, Phenol, Styrene, Most Heat Transfer Fluids, Aromatic Chemicals, BTEX
Detection Range	Fuel Oil, Crude Oil 5 ppb - 500 ppm in steam condensate
Low Detection Limit	Most Other Hydrocarbons < 50 ppb
Dimensions (Wall Mount)	44" H x 44" W x 12.5" D (1118 mm x 1118 mm x 317 mm)
Weight	65 lbs (30 kg)
Local Display	Yes, PPM, PPB, or Raw Signal
Controls	External 316 SS Touch Pad
Power Requirement	90 - 240 VAC, 50/60 Hz +/- 10%, 184 W, 1 ph, (24 VDC Optional)
Plumbing Requirements	Feed: 1/2" FNPT Return: 1- 1/2" FNPT Pipe
Sample Inlet	< 20psig (138 kPag) (For higher pressures consult factory)
Feed	1/2" FNPT Return: 1- 1/2" FNPT
Sample Outlet Pressure	Atmospheric (standard) or optional sample return pump
Sample Temperature	140 °F (60 °C) (For higher temperatures consult factory) 2 - 3 US gallons/min [7.5 - 11.5 L/min], optional sample pump
Required Inst. Air Supply General Purpose	10 - 20 SCFH (0.28-0.57 m ³ /hr)
Ambient Operating Temperature	-4 to 131 °F (-20 to 55 °C) (Heater or Vortex Cooler Optional)
Flow Cell Characteristic	Non-Contact EZ Access
Pressurized Sample Return	Yes, with optional sample return pump
Operational Principle	UV Fluorescence with application specific optical configurations
Calibration Stability	+/- 10% over 6 Months or better
Response Time	3 seconds full scale spike change, continuous reading
Calibration	Blank / standard addition or correlation to standard methods linear or non-linear
Field Validation	Via CheckPOINT Solid Check Standard
Reagents	None
Alarms	Baseline, early warning, high alarm, system-function, local display and audible tone
Alarm Contacts	Four 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 failures reports to relay and local display
Security	Two level password protected, lockable cabinet
IP Rating	IP 66, NEMA 4X (Standard)
Maintenance	Calibration check, Clean Sample System
Hazardous Area Options	Use TD-4100 XD with proper rating
Sample Pump	Optional
Cleaning System	Optional
Data Logger	Standard - see E09 Data Sheet
Certifications	IMO 107 (49), 9001: 2008 Quality System



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