

## TDLS8000 and TDLS8100 Tunable Diode Laser Spectrometer Inquiry Form

Thank you for your inquiry about our TDLS8000 Tunable Diode Laser Spectrometer. Please help us to choose the best possible solution for your application by filling in the information below to the best of your abilities. If you need any assistance please call 1-800-524-7378 or e-mail us at [support@us.yokogawa.com](mailto:support@us.yokogawa.com).

### 1. General Information

Company:
Site/Plant Name:
Address:
Contact Person:
Email:
Telephone:
Requested Delivery Date (MM/DD/YYYY):
Brief Description of Application:
Purpose of Measurement (Control, Safety, Monitoring, etc.):
Quote Type (Budgetary or Firm):

### 2. Physical Installation Details:

Installation Type:

Area Classification of Analyzer Installation:
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☐ Cross Stack/Pipe: For measurement across the process.

Path Length:
Process Connection:
Nozzle Length:

☐ Bypass Leg: Measurement across bypass leg located at process measurement point.

Path Length:
Process Connection:

Extractive: Sample is extracted and transported (by others) to analyzer.

☐ Sampling System Required

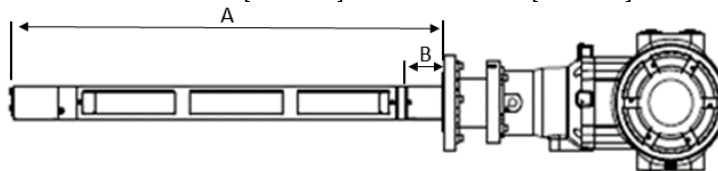
Desired Temperature Setpoint:
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Desired Pressure Setpoint:
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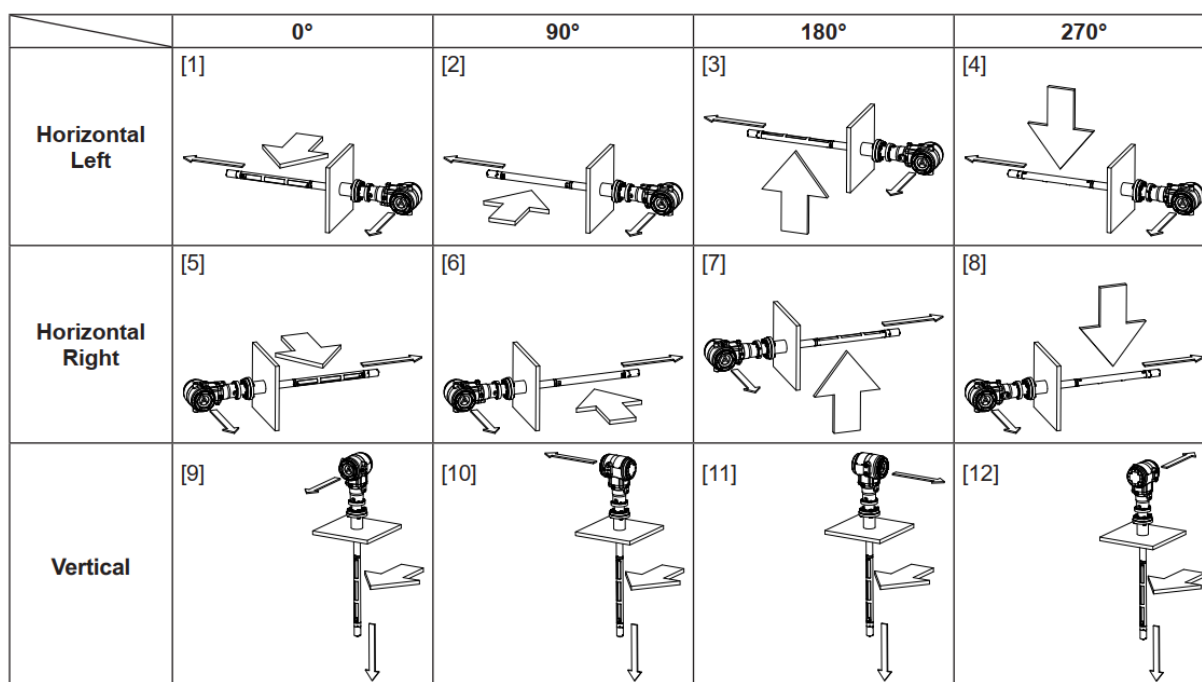
Probe Style: Single Flange Entry

- Total Probe Length 'A' flange face to probe end  
Insertion Depth 'B' [accounts for nozzle depth and refractory depth]

☐ 0.7m [0.078 m]      ☐ 1.0 m [0.378 m]      ☐ 1.5 m [0.878 m]      ☐ 2.0 m [1.378 m]



Process Connection:
Display Orientation (1-12, see below):



vertical upwards is not possible

Ambient Temperature at Analyzer Installation:

Min:
Max:

### 3. Stream Composition (Please Use One Sheet Per Application):

Process Wetted Materials:

Must Use:
Must Not Use:

Material Test Reports Required on Wetted Metals: ☐ Yes ☐ No

Positive Material Identification Needed on Wetted Metals: ☐ Yes ☐ No

Component	Concentrations			Units	Measured	Range If Measured
Name	Min.	Typ.	Max.	ppm(v)/vol%	Yes/No	

#### 4. Process Physical Properties:

	Units	Min.	Typ.	Max.
Temperature				
Pressure				
Dew Point				
Water Vapor				
Flow				
Velocity				
Particulate Concentration				

#### 5. Analyzer Options:

- ☐ YH8000 HMI Unit
- ☐ Installed by Customer
  - ☐ As Part of Utility Panel (See Section 6 Below)
- ☐ IF8000 Isolation Flanges (for pressures in excess of 72 psig or temperatures in excess of 131°F with purge)
- ☐ YC8000 Flow Cell (Used in the case of extractive installations) \*Not Applicable to TDLS8100 Probe Type
- ☐ 4-Pair Cable for Connecting the Sensor Control Unit (SCU) to the Laser Unit (LU)

Distance from SCU to LU:

Extended Warranty (Comes with 18 Months): ☐ One Year ☐ Two Years ☐ Three Years

#### 6. Purge Options:

Gas Availability:

☐ Nitrogen

☐ Instrument Air

Pressure:
Temperature:
Dew Point:

Pressure:
Temperature:
Dew Point:
Concentration Range:

☐ YP8000 Utility Panel Requested (Remote Purge, Validation, Power, and Connectivity Panel)

Panel Configuration	Single Analyzer Panel	Dual Analyzer Panel	
	Triple Analyzer Panel	Quad Analyzer Panel	
Enclosure Material:	316 Stainless Steel	Fiberglass	
Validation Type:	Automatic	Dual Gas Automatic	
HMI Mounting:	Inside	Outside	<input type="checkbox"/> N/A
Ethernet Switch:	5-Port Switch	8-Port Switch	<input type="checkbox"/> None
Window Kit:	Over Purge Panel	Over HMI	<input type="checkbox"/> None
HART Splitter:	Yes	No	
Z-Purge Kit Installed:	Yes	No	

Area Classification Where YP8000 Will Be Installed:

Distance From Analyzer Sensor Control Unit to YP8000:

Ambient Temperature

Min:

Min:

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## 7. Validation and Calibration Options:

Validation Method:

- ☐ Online Validation (Validation While Analyzer is Still Connected to Process)
- ☐ Offline Validation (Analyzer is Taken Off Process and Connected to Flow or Calibration Cell)

Calibration Method (Should Only Be Done with Factory Guidance):

- ☐ Calibration Cell for Calibration on Site
- ☐ Spare Smart Laser Module (Swapped with the Installed Module and Sent to Factory for Calibration)
- ☐ Send Entire Unit to Factory Periodically or Schedule Field Service

## 8. Documentation, Service, and Spare Parts:

Alignment Services

*Nozzle installation and alignment is extremely important to properly execute a TDLS installation. If you are unsure about performing this scope of work please consult with Yokogawa's alignment supervision services to ensure a successful TDLS installation.*

Startup and Commissioning

☐ Complete Data Book

Annual Maintenance Contract

☐ Certified Product Drawings

Spare Commissioning Parts

☐ Certified Wiring Drawings

Recommended Spare Parts

☐ Certified Piping Drawings

## 9. General Application & Installation Notes/Comments:

If you have any issues completing this form, please contact your local sales representative who can be found here <https://www.yokogawa.com/us/contact/#locate-your-sales-representative>, or contact us directly via e-mail at [support@us.yokogawa.com](mailto:support@us.yokogawa.com) or by phone at 1-800-524-7378.

Upon completion please submit this form to [support@us.yokogawa.com](mailto:support@us.yokogawa.com).