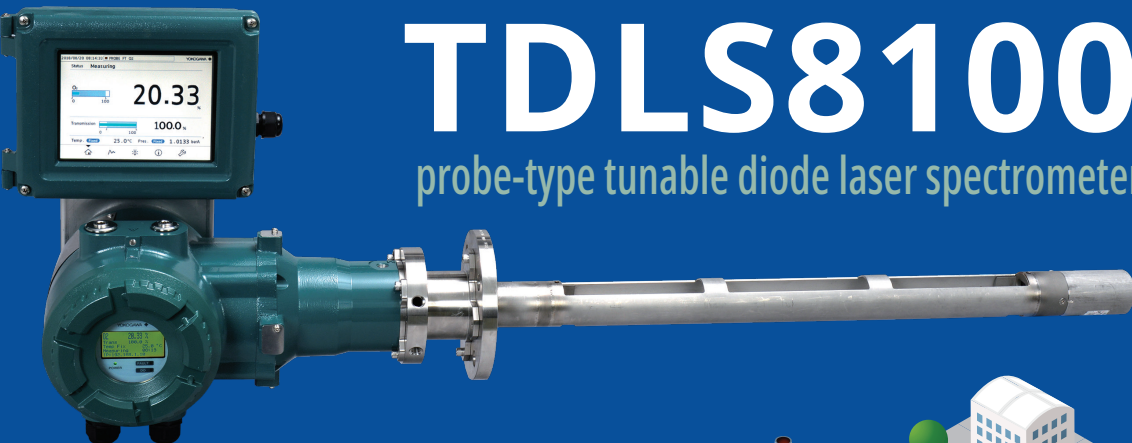


TDLS8100

probe-type tunable diode laser spectrometer

Looking for a Better Way to Make
Oxygen Measurements
Over Traditional
Paramagnetic & Electrochemical Methods?



1 NO LAG TIME
provides near real time (< 5 sec)
O₂ and CO/CH₄ measurements

2 EASY INSTALLATION
single flange design allows for
installation flexibility &
lower costs

3 PIN-POINT ACCURACY
in-situ gas measurement
removes the need for sample
handling & conditioning

4 HIGHER RELIABILITY
dynamic processes and upsets do not
interfere with measurements

5 SIMPLE MAINTENANCE
solid state technology means virtually
no drift
no routine calibration
no routine maintenance

6 INTUITIVE CONTROLS
On-board diagnostics with
50 days of spectral &
historical data



PERFORMANCE

Measured component	Repeatability	Linearity
O ₂	±1% reading or ±0.01% O ₂ , whichever is greater	±1% F.S.
CO (ppm)	±2% reading or ±1 ppm CO, whichever is greater	±1% F.S.
CO and CH ₄	CO ±2% reading or ±1 ppm CO, whichever is greater	±2% F.S.
	CH ₄ ±4% reading or ±0.02 CH ₄ , whichever is greater	±4% F.S.

Measurement conditions: 25°C, 0.1 MPa abs., optical path length 1 m

WHY ARE ACCURATE OXYGEN MEASUREMENTS IMPORTANT?

A Limiting Oxygen Concentration (LOC) measurement is when oxygen (O₂) is being monitored continuously to prevent a gaseous mixture from reaching the Lower Explosive Limit (LEL). LEL is the minimum amount of O₂ needed in a mixture of fuel and air that an explosion can occur.