

MODEL 800TS

ONLINE TOTAL SULFUR ANALYZER

Continuous Online Sulfur Measurement Across Industrial Applications

The Blue Dragon Model 800TS delivers accurate, real-time total sulfur analysis for both liquid and gas streams. Combining UV fluorescence detection with patented catalytic combustion technology, it provides reliable data for process control, product quality, and regulatory compliance.



UV Fluorescence Detection

Ultra-low detection limit
100 ppb



Patented Catalytic Combustion

100% conversion of sulfur compounds to SO₂



Gas & Liquid Analysis

One analyzer for both liquid and gas streams

WHY CHOOSE THE MODEL 800TS?



Continuous Online Monitoring

Real-time sulfur analysis for continuous process control and product quality.



Gas & Liquid Capability

Measure total sulfur in liquid hydrocarbons and gas streams with one platform.



Ultra-Low Detection

100 ppb detection limit using advanced UV fluorescence technology.



Up to 6 Sample Streams

Monitor multiple process streams automatically from one analyzer.



Industrial Reliability

Maintenance-free membrane dryer and patented catalytic combustion technology.



Easy Plant Integration

Modbus RTU, 4-20 mA outputs, diagnostics alarms and DCS connectivity.

INDUSTRIES & APPLICATIONS



Oil & Gas

- Wellhead
- Pipelines
- Refineries



LNG & LPG

- LNG Terminals
- LPG Production
- Gas Handling



Petrochemicals

- Feedstock Monitoring
- Catalyst Protection
- Process Optimization



Chemical Manufacturing

- Process Monitoring
- Product Quality
- Specialty Chemicals



Fertilizer

- Ammonia
- Urea
- Sulfuric Acid
- Phosphate



Power Generation

- Fuel Oil Sulfur
- Emissions Monitoring



Environmental Monitoring

- Waste Streams
- Emissions
- Compliance



Pharmaceutical & Specialty

- Process Quality Control
- Sulfur Compounds

HOW IT WORKS



Sample

Liquid or gas from process



Precision Injection

Six-port valve ensures accurate, repeatable sample delivery



Catalytic Combustion

Sample combusted at >1000°C with patented catalytic technology



Membrane Dryer

Maintenance-free dryer removes moisture for accurate results



UV Fluorescence Detector

SO₂ measured by UV fluorescence with ultra-high sensitivity



Real-time Sulfur Result

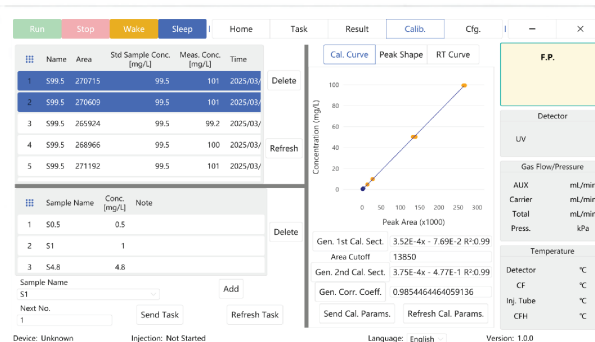
Concentration displayed and transmitted to control system

TECHNICAL SPECIFICATIONS

Measurement Principle	UV Fluorescence
Measurement Range	0-100 ppm (customizable upon request)
Detection Limit	100 ppb
Repeatability	±1% of full scale
Linearity	±2% of full scale
Analysis Time	≤ 5 minutes per stream
Sample Streams	1 to 6 (automatic switching)
Sample Type	Liquids and gases
Calibration	Single-point or multi-point (external standard)
Data Output	4-20 mA per stream, RS-48S Modbus RTU
Power Supply	220 VAC, 50/60 Hz, 1500 W
Hazardous Area	Zone 2, Exd II C T4 Gb (with purging system)
Instrument Air (Purge)	0.6 MPa, 200 L/min, oil-free, clean air
Carrier / Auxiliary Gas	Zero air: 0.2-0.3 MPa, ≥1.5 L/min
Dimensions (W x D x H)	386 mm x 705 mm x 1155 mm
Weight	Approx. 100 kg
Wetted Materials	316L Stainless Steel

COMPLIANCE STANDARDS

- ✓ ASTM D5453
- ✓ ASTM D6667
- ✓ ISO 20846
- ✓ GB/T 34100
- ✓ SH/T 0689



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