



Model 800

The KECO Model 800 Analyzer provides real-time, accurate measurement of Total Sulfur and H₂S in gas streams with unmatched selectivity. Its dual-function, interference-free detection system ensures precise results from ppb to percent levels, supporting safe, efficient, and compliant operations with minimal maintenance.

Applications

- Sulfur Analysis in Ammonia
- Fuel Cell Protection
- Sales Gas Monitoring
- Sulfur in Synthesis Gas
- Landfills
- Chemical Plants
- Food & Beverage Plants
- Refineries
- Liquid Petroleum Gas (LPG)
- Liquid Natural Gas (LNG)
- Environmental Monitoring



Benefits

- Dual H₂S and Total Sulfur detection
- Wide range: ppb to 100% levels
- ASTM-approved tape ensures high accuracy
- Low maintenance, minimal consumables required
- Hazardous-area certified for safe use

Operational Impact

- Enables real-time sulfur balancing decisions
- Reduces chemical overdosing in treatment
- Improves environmental compliance confidence
- Cuts need for manual sample testing
- Reduces poisoning of the catalyst



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Specifications

DISPLAY

- Alpha Numeric LCD
- 128 x 64 pixel
- Back-lit display (optional)
- LCD Graph Display w/ month of data (optional)

TEMPERATURE RANGES

- neg. -10°C to 50°C (operating)
- 0°C to 70°C (storage)

ANALOG

- 4-20mA Isolated

ANALYTICAL PERFORMANCE

- Resolution: 10-50 ppb
- Accuracy: ±2%
- Repeatability: ±1%
- Linearity: ±1%
- Drift: Nil
- Temp. Coefficient: 0.01% / °C
- Analysis time: 0.75 Second (initial response)

DETECTION RANGES

- 0-1 ppm by wt.
- 0-10 ppm by wt.
- 0-50 ppm by wt.
- 0-100 ppm by wt.
- 0-500 ppm by wt.
- Percent ranges
- Customer specified (contact factory)

SAMPLING SYSTEM (STANDARD)

- Sample Pressure Regulator
- Sample Flow Meter
- Secondary particulate filter
- Fast sweep (fast loop) needle valve

ENCLOSURE (CABINET)

- High-impact, industrial strength fiberglass
- NEMA 4X / IP 65 options

WEIGHT/DIMENSIONS

- ~200 lbs. w/o options
- 30" W x 50" H x 12" D (Series 1800-150)

UTILITIES/SETTINGS

- 120VAC 10A or 240VAC 5A
- ~1 KWatt
- Hydrogen: 100 ml/min
- Sample flow: 0.3 SCFH
- Sample pressure: 10 psig constant
- Calibration gas: H₂S ~25% of scale balance N₂, 2L per cal

AREA CLASSIFICATIONS

- Class 1 Division 2

AVAILABLE OPTIONS

- Concentration relay alarms
- Diagnostic/fault relay alarms
- Low flow relay alarms
- RS-232/485 Modbus
- Data Logger for data download to PC
- Remote monitoring/control with PC
- Automatic calibration
- H₂S Scrubber (for vent)
- Fugitive Emission Control Unit (for vent)
- Sample Probe
- Sampling System for gas contaminated with liquids
- Sampling System for LNG/LPG (Vaporizing Regulator)

KECO provides design and application engineering assistance for the User's analyzer requirements. For a quotation, please complete Analyzer Quote Request Form at kecosystems.com/quote

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