



Model 100 & 200

The Series 100 & 200 offers a cost-effective, field-hardened solution with minimal upkeep and high analytical precision, favored in applications where accurate, real-time H₂S monitoring is mission-critical.

Applications

- Gas Processing Facilities
- Natural Gas Pipelines
- Refineries
- Biogas
- Landfills
- Chemical Plants
- Liquid Petroleum Gas (LPG)
- Liquid Natural Gas (LNG)
- Environmental



Benefits

- No false positives ever
- Automatic self-zero
- Fast response time
- Quantitative measurement in PPB, PPM & percent levels
- Proven reliability
- Conformity to ASTM methods

Operational Impact

- High accuracy and wide range
- Low maintenance
- Calibration stability
- Low cost of ownership
- Continuous analysis
- Explosion-proof design (200)



Specifications

DISPLAY

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

TEMPERATURE RANGES

- 1°C to 50°C (operating) without cooling/heating
- 0°C to 70°C (storage)

ANALOG

- 4-20mA Isolated

ANALYTICAL PERFORMANCE

- Resolution: 1 ppb
- Accuracy: $\pm 2\%$ of FS
- Repeatability: $\pm 1\%$ of FS
- Linearity: $\pm 1\%$ of FS
- Drift: Nil
- Temp. Coefficient: 0.01% / °C
- Analysis time: 0.75 Second (continuous)

DETECTION RANGES

- 0-1 ppm by vol.
- 0-10 ppm by vol.
- 0-50 ppm by vol.
- 0-100 ppm by vol.
- 0-500 ppm by vol.
- Up to 100%
- 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
- Stainless Steel options available

WEIGHT/DIMENSIONS

- 50 lbs. w/o options (Series 200)
- 20 lbs. w/o options (Series 100)
- 17" W X 19" H X 10" D (Series 200)
- 14" W X 16" H X 8" D (Series 100)

UTILITIES/SETTINGS

- 12VDC, 24VDC, 110VAC or 220VAC
- 120VAC 3A or 240VAC 1.5A (200 Series)
- 5 Watts (without heater option) 10 Watts max
- Carrier Air: (for 501+ ppm ranges only) 130 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 1 (Series 200)
- Class 1 Division 2 (Series 200)
- Zone 1 or Zone 2 (Series 200) General purpose/non-explosion proof (Series 100)

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
- TCP IP Ethernet
- Automatic calibration
- H₂S Scrubber (for vent)
- Cabinet heater & thermostat
- Fugitive Emission Control Unit (for vent)
- Hazardous area certificates may be available (added cost)
- 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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