

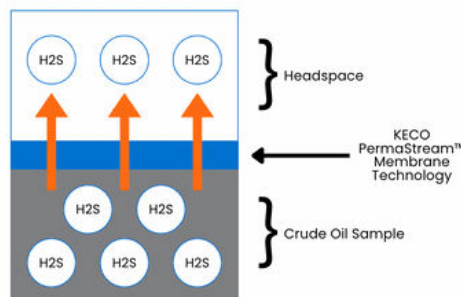
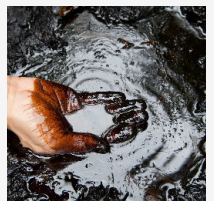
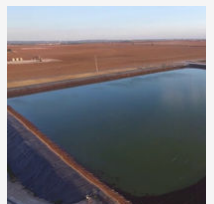
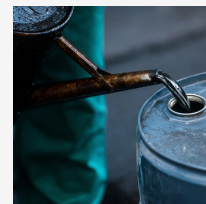


Model 205 PermaStream

The KECO Model 205 PermaStream Analyzer provides dependable, real-time measurement of H₂S in liquids with unmatched simplicity. Its membrane-based design and advanced detection system eliminate false positives, reduce maintenance demands, and deliver precise results—helping operators ensure safety, compliance, and efficient operations with confidence.

Applications

- Crude Oil (light, medium, heavy)
- Diesel
- Fuel Oil
- Produced Water
- Condensate
- Dirty/Clean Water
- Amine
- Free flowing liquids



Benefits

- 80 readings per minute
- H₂S-specific — no false positives
- No field calibration needed
- Linear response — no drift
- Wide range: ppb to %
- Membrane technology
- Samples at process pressure flow and temperature

Operational Impact

- Rapid real-time process control
- Prevents overdosing and false alarms
- Minimizes maintenance and downtime
- Delivers stable & accurate data
- Broad detection
- Shields sensor from contamination
- Removes need for conditioning



Specifications

DISPLAY

- Alpha Numeric LCD
- 128 x 64 pixel
- Back-lit display

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: $\pm 2\%$
- Repeatability: $\pm 1\%$
- Linearity: $\pm 1\%$
- Drift: Nil
- Temperature Coefficient: 0.01% / °C
- Analysis time: 0.75 Second

DETECTION RANGES

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

SAMPLING SYSTEM

- Carrier Air/Gas requirement: 15 psig constant and 150 ml/min flow rate
- Liquid requirement: Minimum 0.5 L/min flow and maximum 1,480 psig @ 100°F
- Max sample temperature at the analyzer inlet 55°C

WEIGHT

- ~175 lbs (analyzer only, no options)

DIMENSIONS

- 3 ft x 3 ft x 1.5 ft

UTILITIES/SETTINGS

- 120VAC 3A or 240VAC 1.5A
- 100 Watts normal, 700 Watts max
- Carrier Air/Gas: 180 ml/min (15 psig max)
- Sample flow: 0.5 L/min minimum
- Sample pressure: 1,500 psig max

AREA CLASSIFICATIONS

- Class 1 Division 1
- Class 1 Division 2
- Zone 1 or Zone 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

TECHNOLOGIES

- PermaStream™ (ASI Membrane Technology)
- Rateometric-Colorimetric Tape

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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