Ei800 Series Process GC

Fast Mud Gas Composition Analysis for Surface Logging

The Ei800 Series Process GC delivers rapid, online gas composition data from drilling mud to support surface logging operations. Configurable for C1-C5, C1–C8, as well as helium, hydrogen, carbon dioxide, and other selected gases, the Ei800 helps surface logging teams move beyond basic total gas measurements toward more detailed mud-gas characterization. With micro-TCD detection, low carrier-gas consumption, compact field-ready packaging, and MODBUS/TCP communication, the Ei800 can be integrated into mobile labs or existing mudlogging systems for continuous, unattended operation.

Key Features

- Super fast analysis: 15-60s depending on configuration
- Extreme sensitivity and accuracy (500 ppb DL)
- Multi-stream capable
- Minimal carrier gas consumption (5 mL/min)
- Low power requirements 10W power consumption - no AC required (24 VDC)
- Extremely compact design
  - 1.4 x 10.2 x 4.8"
  - Weighs less than 30 lbs
- Easy to maintain
  - Robust design
  - No tubes or capillaries
  - Replaceable cartridges
- 24/7 autonomous operation without PC
- Integrated data processing and communication
- Configurable gas ports
- Time-controlled injection



Options

- Explosion-proof enclosure
- Multi-sampling point switching system

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Applications and Measurement

With 4 channels, can be configured for simultaneous basic and advanced applications with and without water present.

- Methane max concentration 100%
- C1 to C5 in 20s
- C1 to C8 in 60s
- Isomers can be speciated or analyzed collectively
- He and H_2
- N_2, O_2, CO, Ar
- H_2S, benzene, and other analytes of interest

Specifications

Cycle Time	15–60 s (typical)
Repeatability	<0.05% RSD (typical)
Environmental Conditions	Operating: -20 to 55°C; Storage: -20 to 60°C; Humidity: 5–95%
Protection Rating	IP65
Power Requirements	20–28 VDC; 20 W nominal, 75 W max
Physical Dimensions	289 × 258 × 122 mm; <15 kg
Gas Connections	1/16" VICI Valco; He, Ar, N_2, or H_2
Carrier Gas Requirements	65 ± 5 psi; 15 mL/min typical
Sample Handling	Pressurized or atmospheric; 1–30 psi; up to 4 streams
Detector Type	Fore-flush and back-flush micro TCD
Detection Range	500 ppb to 100%
Communications	RS485, RS232, TCP/LAN, Ethernet, Digital I/O
Memory Storage	Up to 256 GB
Certifications	ATEX/IECEx II 2G Ex db IIB+H2 T4 Gb; NEC/CEC Class I, Div. 1, Groups B,C,D, T4

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