

ENVENT MODEL 131

Process Gas Chromatograph

Designed to provide accurate and reliable measurements for a variety of the applications commonly found in the Oil and Gas industry. The Model 131 design offers many features while still offering a level of simplicity, affordability and reasonable delivery times that many end-users desire.

Envents capability to provide customized sample conditioning systems, integration services and the necessary analytical accessories makes the Model 131 an excellent choice for many of your analytical process measurement requirements.

Features

Application Flexibility

Diverse stream compositions with dynamic ranges from percent to trace level measurement all encompassed in one GC.

Typical Applications Include:

- ✎ Gas Processing: Plant Inlet, Sales/Outlet, Sour Gas Pipeline Blending.
- ✎ Amine Units: H₂S for sulfur balance/acid gas.
- ✎ NGL Fractionation: De-ethanizer, De-propanizer and De-butanizer tops and bottoms.
- ✎ C5+ Condensate.
- ✎ C9+ with Hydrocarbon Dewpoint.
- ✎ Waste and Fuel Gas Analysis.
- ✎ Biogas and Landfill.
- ✎ SAGD.
- ✎ Custom Applications.

Field Replaceable Module

Module design allows for quick and easy field service to repair, replace, or retrofit the GC Module to reduce maintenance cost and stay online..

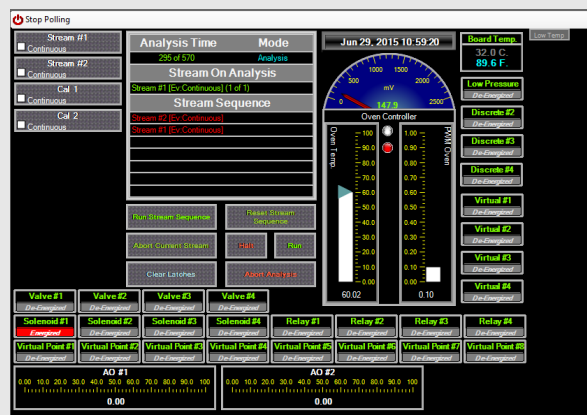


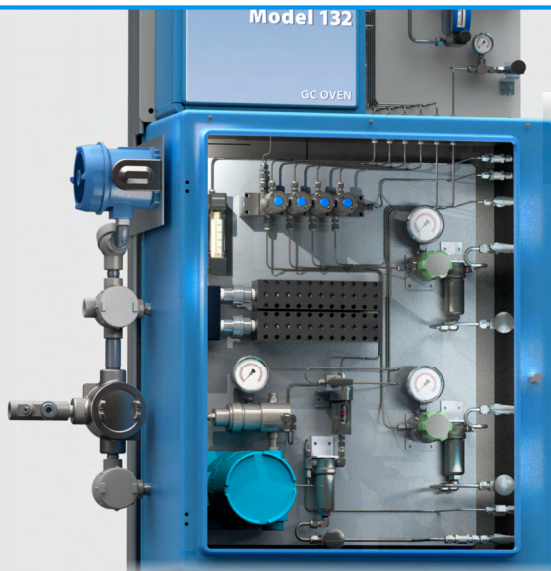
Integrated Configuration Environment

I.C.E. is an unlicensed Windows based configuration software interface that allows you to quickly set up, configure, and troubleshoot all Envent analyzers.

From within I.C.E., you can:

- ✎ Start or stop analyses and calibration cycles.
- ✎ Generate and save current and historical analysis, raw data, and calibration reports.
- ✎ Review and modify analytical settings.
- ✎ Upload and display multiple chromatograms for comparison.
- ✎ Upload, download and display months of archived data.
- ✎ Setup independent automated stream switching.

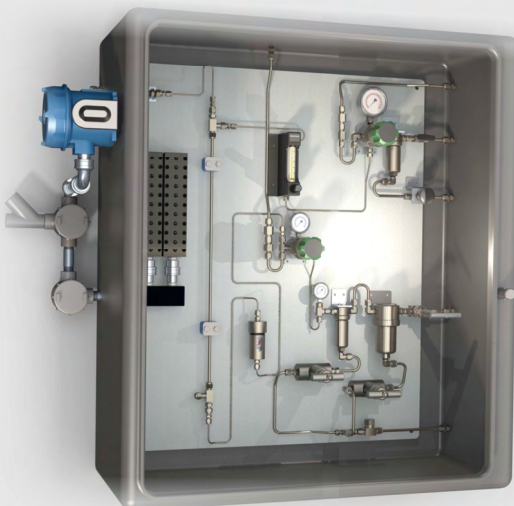




NGL Heated Sample System



Heated Probe Enclosure



High H₂O/H₂S Content Sample System

Specifications

Environmental Temperature:

- 0° to 50°C (32° to 122°F)

Dimensions (without sample system or mounts):

- Model 131: 776 mm H x 335 mm W x 187 mm D
30.5 " H x 13.2 " W x 7.4 " D
- Model 132: 776 mm H x 335 mm W x 187 mm D
30.5 " H x 13.2 " W x 7.4 " D

Mounting:

- Wall mount or Floor mount

Approximate Weight (without sample system):

- Modul 131: 40 kg (88 lbs)
- Model 132: 20 kg (44 lbs.)

Hazardous Area Certification Options:

- CSA Class I, Division 1, Groups B, C, D, T3
- CSA Class I, Division 2, Groups A, B, C, D, T3

Power:

- 120 VAC 50/60 Hz Standard
- Consult factory for additional options

Power Consumption:

- Start up: 150 Watts
- Steady State: 50 Watts

Oven:

- Airless, maximum 110°C (230°F)

Valves:

- Six-port and ten-port diaphragm chromatograph valves
- Liquid injection rotary valves

Repeatability in % of full span:

- 20-100%: +/- 0.5%
- 2-20%: +/- 1%
- 0.1 - 2%: 2%
- 50ppm - 1000ppm: 4%

Carrier Gas:

- Application-dependent. Typically UHP Helium (99.995%)
- Typically 414-690kPa (60-100PSIG)

Detector:

- Thermal conductivity detector (TCD)

Gating Options:

- Fixed-time, auto detection

Streams:

- Up to 7 streams (includes calibration streams)

Communications:

- Two analog inputs
- Two analog outputs
- Four digital inputs
- Eight digital outputs
- Four dry contact relay outputs
- One RS-232 serial communication port
- Three RS-485 serial communication ports
- One Ethernet communications port

Archives:

- 4 MB static RAM (typically 6 months of data)
- 23 Analysis Reports
- 23 Raw Data Reports
- 100 Calibration Reports
- Alarm Reports