Envent Engineering Ltd.

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 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: H_2S 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

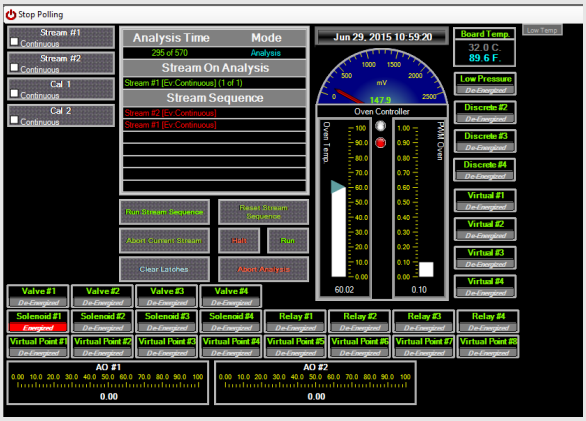
Module design allows for quick and easy field service to repair, replace, or retrofit the GC Module to reduce maintenance cost and stay online.

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 independant automated stream switching.



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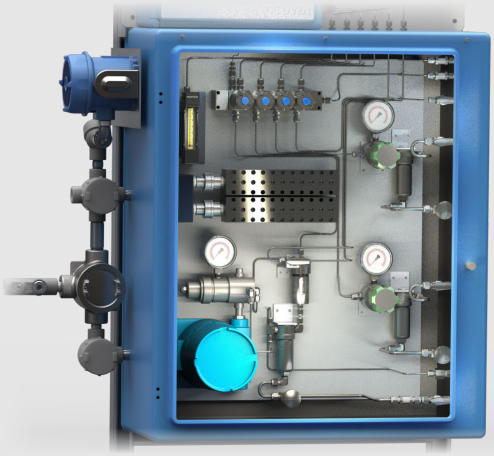
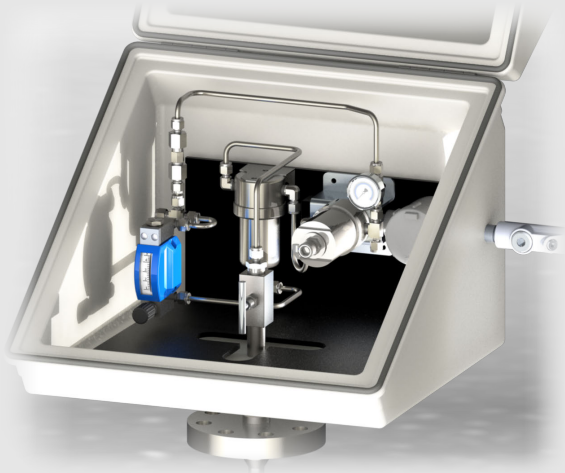
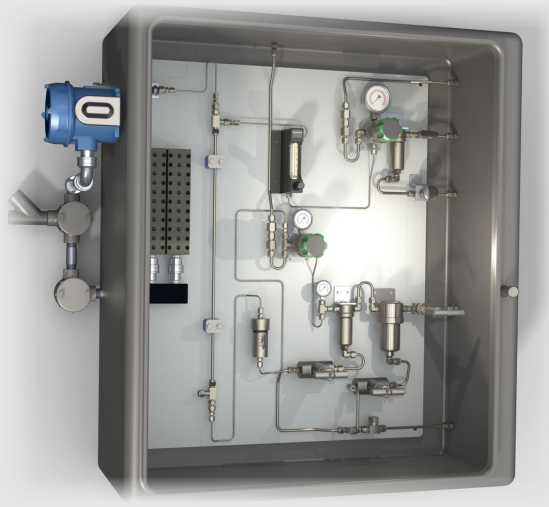


NGL Heated Sample System



Heated Probe Enclosure



High H_2O/H_2S Content Sample System

SPECIFICATIONS

Environmental Temperature	0° to 50°C (32° to 122°F).
Dimensions	37.5" H x 13.5" W x 9.75" D (no sample system), (95.2cm H x 34.3cm W x 24.8cm D).
Mounting	Wall mount or Floor mount.
Weight	Approximately 40kg (88 lbs.).
Certification	CSA Class I, Division 1, Groups B, C, D, T3.
Power	120 VAC 50/60 Hz Standard, 240 VAC 50/60 Hz Available.
Power Consumption	Start up: 175 watts. Steady State: 100 watts nominal.
Oven	Airless, maximum 110°C (230°F).
Valves	Six-port and ten-port diaphragm chromatograph valves. Liquid injection rotary valves.
Repeatability	20% - 100%: +/- 0.5 of full span. 2 - 20%: +/- 1% of full span. 0.1% - 2%: +/- 2% of full span. 50ppm - 1000ppm: 4% of full span.
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 outputs. *Four dry contact relay outputs. Four digital inputs. Eight digital outputs. Two RS-232 serial communication ports. Four RS-485 serial communication ports. One Ethernet communications port. *Eight additional analog outputs and four additional dry contact relays with Analog Expander Board (optional).
Archives:	4MB static RAM (typically 6 months of data). 23 Analysis Reports. 23 Raw Data Reports. 100 Calibration Reports. Alarm Reports.

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