

## ENVENT MODEL 132

### 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 132 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 132 an excellent choice for many analytical process measurement requirements.

## FEATURES

### APPLICATION FLEXIBILITY

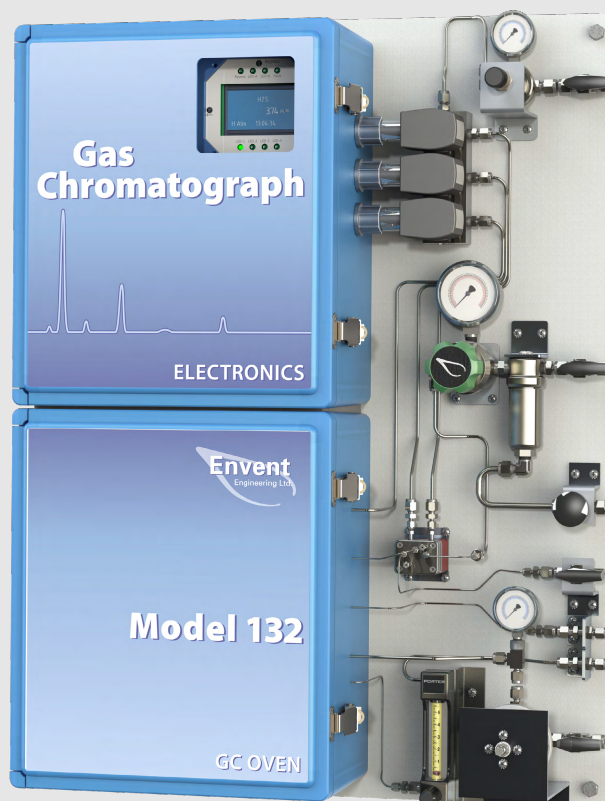
Diverse stream compositions with dynamic ranges from percent to trace level measurement all encompassed in one GC.

Typical Applications Include:

- ✎ Gas Processing: Plant Inlet, Sales/Outlet, Sour Gas Pipeline
- ✎ Blending.
- ✎ Amine Units: H<sub>2</sub>S 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.

### 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.

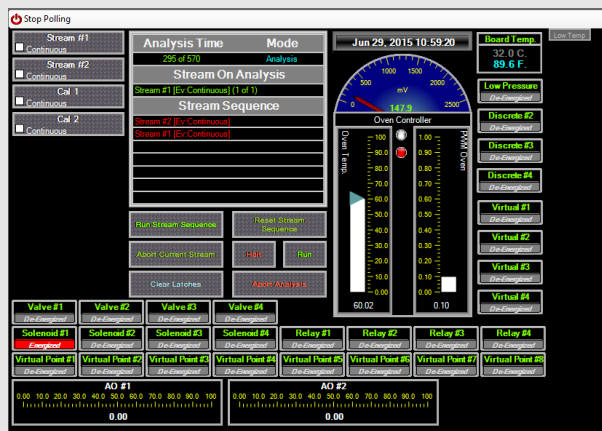


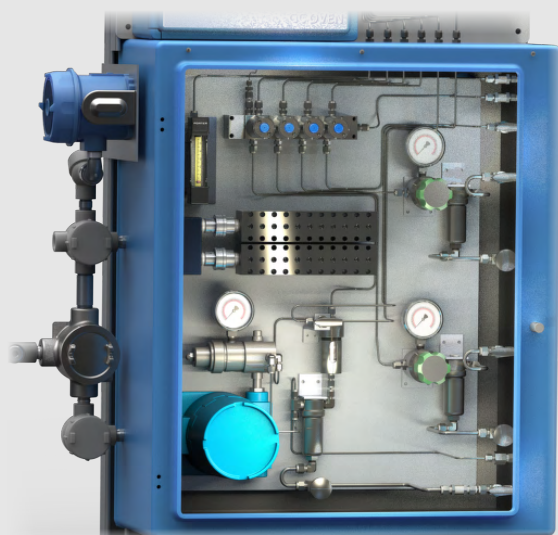
### Integrated Configuration Environment

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.

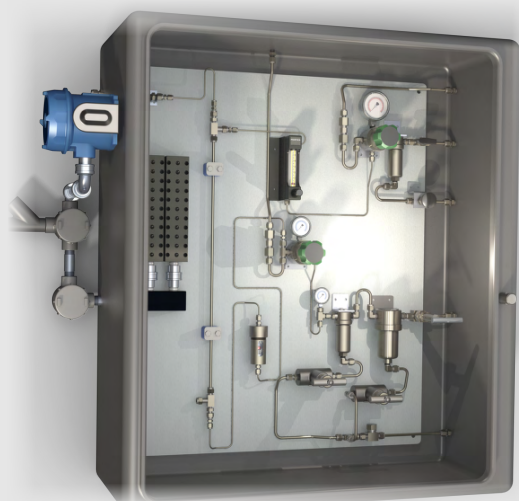




**NGL HEATED SAMPLE SYSTEM**



**HEATED PROBE ENCLOSURE**



**HIGH H<sub>2</sub>O/H<sub>2</sub>S CONTENT SAMPLE SYSTEM**

## SPECIFICATIONS

<b>Environmental Temperature</b>	32° to 122°F (0° to 50°C). 0° to 140°F (-18° to 60°C) with insulated heated enclosure.
<b>Dimensions</b>	30.5" H x 13.2" W x 7.4" D (no sample system), (77.6cm H x 33.5cm W x 18.7cm D).
<b>Mounting</b>	Wall mount or Floor mount.
<b>Weight</b>	Approximately 44 lbs. (20kg).- GC Only.
<b>Electrical Classification</b>	Certified for Class I, Division 2, Groups A, B, C, D, T3.
<b>Power</b>	120 VAC 50/60 Hz Standard, 240 VAC 50/60 Hz Available. 24 VDC power available with external DC/AC inverter's.
<b>Power Consumption</b>	Start up: 150 watts. Steady State: 60 - 80 watts nominal.
<b>Oven</b>	Airless, setpoint adjustable from 150°F to 210°F (65°C to 99°C) .
<b>Valves</b>	Six-port and ten-port diaphragm chromatograph valves.
<b>Repeatability</b>	20% - 100%: +/- 0.5 of full scale. 2 - 20%: +/- 1% of full scale. 0.1% - 2%: +/- 2% of full scale. 50ppm - 1000ppm: 4% of full scale .5 BTU/1000 (.25 BTU/1000 pending).
<b>Carrier Gas</b>	UHP Helium (99.995%)
<b>Detector</b>	Thermal Conductivity Detector (TCD). Thermister beads no damage from loss of carrier.
<b>Gating Options</b>	Auto-Slope detection
<b>Streams</b>	Up to 5 streams (includes calibration stream).
<b>GC I/O &amp; Communications</b>	*Two analog outputs. *Four dry contact relay outputs. Four digital inputs. Four solenoid outputs (Eight optional). One RS-232 serial communication ports. Three RS-485 serial communication ports. One Ethernet communications port (optional).  *Eight additional analog outputs and four additional dry contact relays with Analog Expander Board (optional).
<b>Archives</b>	4MB static RAM (typically 3 months of data). Archived Analysis Reports. Archived Raw Data Reports. Archived Calibration Reports. Archived Alarm Reports.
<b>Custody Transfer</b>	Approved for Custody Transfer Applications by Measurement Canada.