PRODUCT DATASHEET

Heated Sampling Cabinet for Gas Chromatographs

Heated sample cabinet for process gas chromatographs





DETAIL – REGULATOR AND FLOW METERS

OVERVIEW

The Tech Inc. Heated Sampling Cabinet for Gas Chromatographs (model TI-SCS-GC) prepares high-pressure process gas for an on-line gas chromatograph (GC). It takes gas from the pipeline, lowers its pressure in a heated regulator, keeps it warm and removes liquids and particles. The GC then measures composition, energy content (BTU) and Wobbe index on a true sample, free of condensate that would distort the reading or damage the column.

MODELS AND CONFIGURATIONS

- **TI-SCS-GC** – heated sampling cabinet for process gas chromatographs on high-pressure gas.
- **Single or multiple streams** – one sample stream or several, with stream selection to the GC, to client specification.
- **Yearly filter kit** – membranes, coalescer elements and regulator rebuild parts, with a service visit.

TYPICAL DESIGN DATA

Sample source	High-pressure pipeline or process gas
Pressure reduction	Heated regulator, with inlet and outlet pressures to client specification
Heating	Thermostat-controlled, sized to keep the sample above its dew point
Filtration	Membrane separator, coalescer and particle filters
Wetted materials	Stainless steel, or to client specification
Analyser interface	To the GC maker's sample requirements
Hazardous area	Electrical equipment selected for the hazardous-area classification, or to client specification

APPLICATIONS

Natural gas composition, BTU and Wobbe index measurement at gas processing plants, gas compression plants, pipelines and metering stations, and LNG and fuel gas systems.

KEY ADVANTAGES

- **True sample** – heating stops condensation as the pressure drops
- **Analyser protection** – membrane and coalescer filters keep liquids out of the GC
- **Fast response** – a short sample path and bypass loop bring fresh gas to the analyser
- **Easy maintenance** – yearly kits of membranes, coalescers and regulator parts
- **Matched range** – the same design basis as our H_2S, moisture and mercury cabinets

Designed and built by Tech Inc. · **Part of the Davey Group since 1990**

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