PRODUCT DATASHEET

Mercury Analyser Sampling System

Two-stream sample system for mercury analysers





DETAIL – HEATED SAMPLE LINES

OVERVIEW

The Tech Inc. Mercury Analyser Sampling System (model TI-SCS-HG) takes two high-pressure natural gas streams and conditions each for an on-line mercury analyser. Many gas fields carry mercury at trace levels, and it attacks the aluminium heat exchangers of gas processing and LNG plants.

MODELS AND CONFIGURATIONS

- **TI-SCS-HG** – two-stream sampling system for mercury analysers.
- **Stream pairs** – mercury removal unit inlet and outlet, or any two process points, to client specification.
- **Yearly filter kit** – membranes, coalescer elements and regulator rebuild parts, with a service visit.

TYPICAL DESIGN DATA

Number of streams	Two
Sample	High-pressure natural gas
Pressure reduction	Heated regulator on each stream, with pressures to client specification
Heating	Heated sample path and cabinet, to the analyser maker's requirements
Filtration	Membrane separators, coalescers and particle filters
Wetted materials	Stainless steel with inert-treated surfaces, or to client specification
Analyser interface	To the analyser maker's sample requirements
Hazardous area	Electrical equipment selected for the hazardous-area classification, or to client specification

APPLICATIONS

Mercury monitoring at the inlet and outlet of mercury removal units, feed gas to gas processing and LNG plants, and export gas and pipeline quality points.

KEY ADVANTAGES

- **Two points, one analyser** – stream switching serves both points from one system
- **Reliable trace readings** – a heated, inert-treated sample path limits mercury losses on surfaces
- **Analyser protection** – liquids removed before they reach the analyser
- **Built to the analyser** – sample conditions matched to the analyser maker's requirements
- **Matched range** – the same design basis as our GC and H_2S cabinets

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

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