PRODUCT DATASHEET

Sample Conditioning System

Clean, regulated process samples for online analysers





DETAIL – FLOW METERS

OVERVIEW

The Tech Inc. Sample Conditioning System is a skid or panel that takes a sample from the process, then filters it, reduces its pressure, heats or cools it and controls its flow before it reaches an online analyser. Refineries, gas plants, pipeline operators and offshore facilities use it to give their analysers a clean, representative sample at the conditions each analyser needs.

MODELS AND CONFIGURATIONS

- **Gas sample conditioning** – heated systems keep the sample above its dew point; unheated systems serve dry, stable gases.
- **Liquid sample conditioning** – filtration, pressure control and temperature control for liquid analysers such as oil-in-water monitors.
- **Fast-loop with sample recovery or return** – a high-flow loop brings fresh sample close to the analyser and returns the excess to process or to a recovery system.

TYPICAL DESIGN DATA

Inlet pressure	To process conditions, up to Class 2500, or to client specification
Outlet conditions	Pressure, temperature and flow regulated to the analyser's requirements, or to client specification
Wetted materials	SS316L typical; Monel, Hastelloy or Inconel 625 on request, or to client specification
Heat tracing	Electric or steam, or to client specification
Enclosure	Panel or cabinet in SS or GRP, or to client specification
Fast-loop flow	Sized to the analyser response time required, or to client specification

APPLICATIONS

Gas chromatographs, H_2S, moisture, oxygen, hydrocarbon dew-point and water dew-point analysers, and oil-in-water monitors in refineries, gas plants, pipelines and offshore installations.

KEY ADVANTAGES

- **Faster analyser response** – fast-loop design keeps transport lag short between the tapping point and the analyser
- **Protected analysers** – filtration and liquid removal keep liquids and particulates away from the analyser
- **Tested as a working system** – built and FAT-tested with the analyser in place before shipment
- **One supplier** – sample system and enclosure from one supplier, with one point of responsibility
- **Materials for the stream** – SS316L as standard, with Monel, Hastelloy or Inconel 625 for corrosive streams on request

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

Offices: Chennai · Toronto · Tallinn · Al Khobar

mail@techincresearch.com · +1 (289) 622-1032 · www.techincresearch.com

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