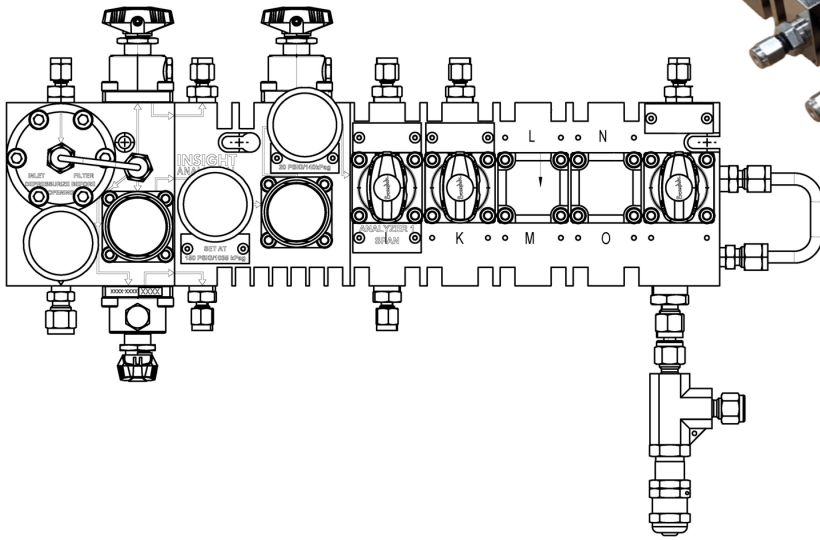


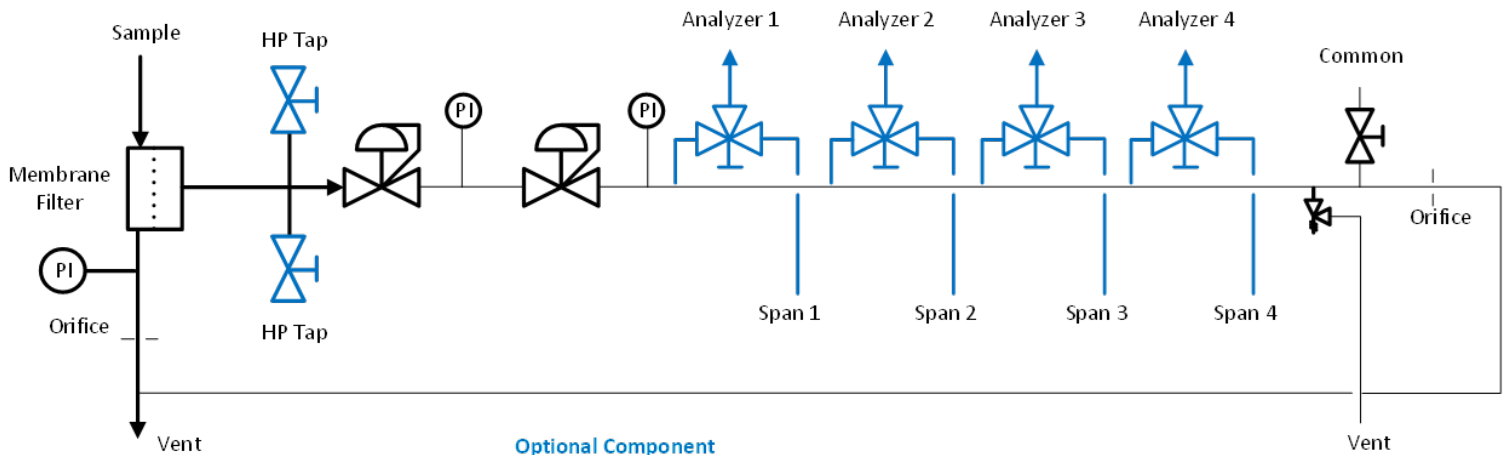


Sample Distribution Panel (SDP-1)



The Insight Analytical Sample Distribution Block (SDB-1) is specifically designed for analyzer applications where sample gas needs to be routed to multiple online analyzers, grab sample points or other devices. This versatile sample system implementation can be implemented to reduce costs, minimize complexity and improve response times. Fabricated from nickel-plated aluminum, it can be placed in a heated enclosure or other temperature controlled locations and provides excellent thermal conductivity and temperature uniformity across the block.

Internal Configuration Schematic

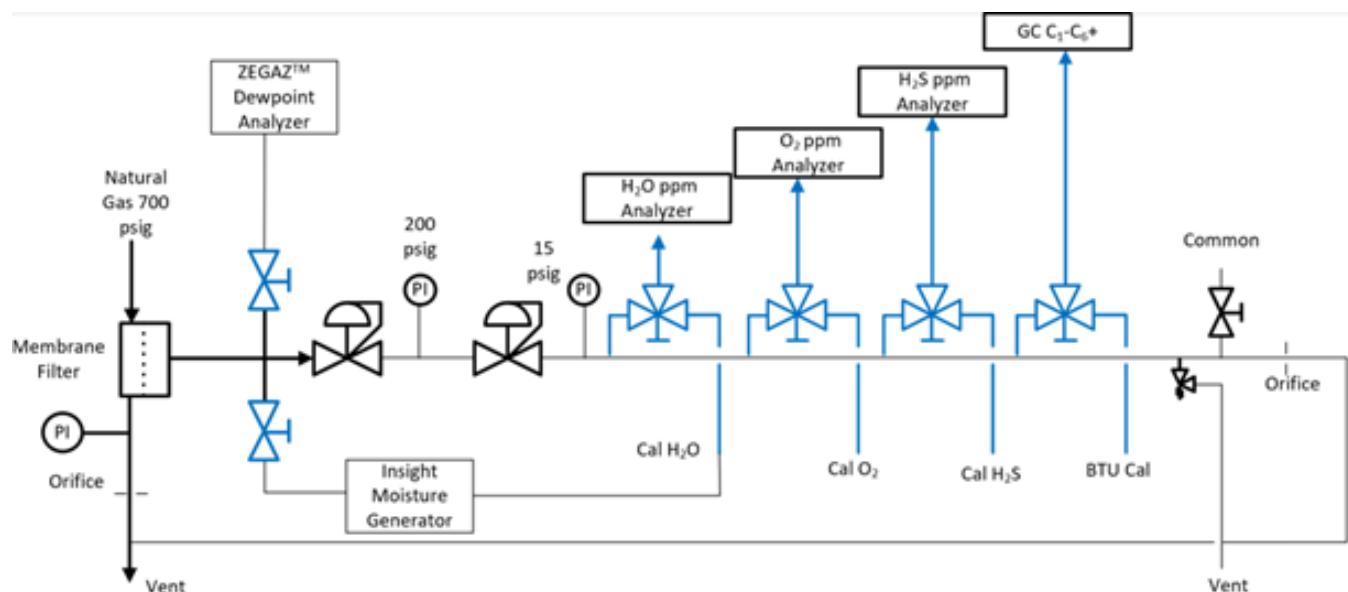


Advantages for end users:

- Standardization of the sample distribution system across installations.
- Small footprint conserving installation wall space.
- Small internal volume and fast response times.
- Inlet membrane filtration with bypass.
- Two high pressure sample tapping points.
- Dual stage pressure regulation.
- One common flush port.
- Common pressure relief valve and drain.

Principle of Operation:

The modular design allows components to be added or removed to suit the application. In a high-pressure gas application such as natural gas processing, the inlet sample pressure may be at full line pressure. This facilitates the measurement of hydrocarbon dewpoint, a required parameter in many pipeline applications and also enables the use of high-pressure process gas to feed the Insight Moisture Generator Block. Up to four analyzers may be installed allowing the measurement of key contaminants such as H₂S, O₂ and water vapor, as well as a GC for C₁-C₆+ and BTU analysis. This configuration is shown below, although other configurations are readily available.



Other configurations are readily available – contact us with your requirements.

