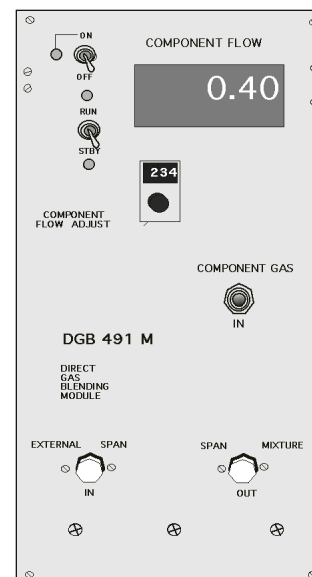


491 M - DGB Direct Gas Blending Module

DESCRIPTION

In the **491M** system, permeation tubes are used to generate gas standards from sub-ppb levels to low percentage concentrations. Higher concentrations must be produced by mixing two mechanically controlled gas flows.



The **491M Direct Gas Blending Module** works with the **491M** permeation tube system to create gas standard mixtures containing both high concentration and trace concentration components. It can also dilute a high concentration mixture to produce a concentration range for multipoint calibration of an analyzer. Dilutions from 1.5:1 to 200:1 are possible.

PRIMARY DESIGN

Component gas from a cylinder is fed into the instrument through an internal pressure regulator. A mass flow controller adjusts the flow of component gas and combines it with dilution gas (or external span mixture) entering from the adjacent permeation module. The span gas mixture exits the 491M-DGB as a perfectly blended calibration gas.

