



## FlexStream™ IM

### Interface Module

Many of the problems encountered in calibrating gas analyzers can be traced to improper techniques for introducing span gas to the analyzer. When using permeation tubes, the problem can be compounded due to flow requirements and lack of operator interfacing experience.

The FlexStream™ Interface Module (FlexIM™) includes an integrated set of tools for solving interfacing problems associated with a wide range of applications.

Most applications require a fixed input flow rate delivered at a fixed pressure. The FlexIM™ contains interface components needed to assure constant analyzer input conditions independent of variations in flow from the FlexStream™ permeation system.

### Features

- Mechanical controls, no power required
- Analog gauge (PSIG)
- Three output parts, 2 toggle switches, and 1 syringe port.
- Provides output pressure to analyzer, up to 40 psi (depending on application)
- 100 cc internal manifold allows gas mixing before delivery
- Back-pressure knob control

### Operation

When an analytical instrument uses an internal (or downstream) pump for sample introduction, as in ambient air analyzers, the mode select valve of FlexIM™ is set to “atmospheric” position to allow sampling conditions. However, if a sample is normally forced into the system (e.g. a GC with a gas sample valve), then the valve is set to the positive “pressure” position and the internal manifold pressure is adjusted using the backpressure control knob and pressure gauge..

The design of the FlexIM™ allows span gas mixture to enter one end of the internal bypass manifold and, depending on analyzer input requirements, provides user control of span gas delivery pressure.

Two outlet ports along the manifold, each with a toggle valve shut off, direct outputs so that the span mixture can be used simultaneously in two separate applications. A third outlet septum is a syringe port form which samples can be drawn into a gas tight syringe. The manifold contains about 100 cc of internal volume serving as a surge volume.

Overall, The FlexIM™ is ideal for applications where flow capacity of end use is limited (e.g. filling gas bags), or when back-pressure is required to introduce the sample to the analyzer.

KIN-TEK Analytical, Inc.  
504 Laurel St., La Marque, Tx 77568 USA  
Ph. 409-938-3627 • 1-800-326-3627  
Fax: 409-938-3710  
[sales@kin-tek.com](mailto:sales@kin-tek.com)

To learn more about KIN-TEK,  
visit [www.kin-tek.com](http://www.kin-tek.com)