

Gas Analyzers

Description of Application

There are many types of gas analyzers, all of which require the measurement and/or controlling of low rates of gas for sampling and introduction of modifying gases.

Where Used

O.E.M.'s Manufacturing:

Carbon Monoxide Analyzers	Toxic Gas Detectors
Oxygen Analyzers	Pollen Count Detectors
Chlorine Analyzers	Combustible Gas Detectors
Hydrocarbon Analyzers	Hydrogen Sulfide Analyzers
Air Pollution Analyzers	NO/NO _x Analyzers

And many more

Rotameter Solution

Since sample flow rates (and flow rates of introduced gases) are usually very small, purge type rotameters are ideal for this application. They are small, inexpensive, dependable, easy to read and require no power.

How Installed

O.E.M.'s generally make the purge type rotameter an integral part of their analyzer, using either flush or surface mounting available with this type of meter.

Method of Operation

In most applications, the rotameter is used to set flows to fixed rates using the hand control valve which is built into the meter. The accuracy of the analyzer reading is dependent, to a degree, on the accuracy of the sample (and other) gas flow settings.

Model Selection

Most applications have low flow rates requiring 10A6130 Series meters. The accuracy and scale resolution will determine which scale length to use 10A6131, 10A6132, or 10A6133. Higher flow rates would be handled by 1/2" 10A4555. Brass fittings and Buna-N o-rings are suitable for most application.

