



**USING THE JEROME 10:1 DILUTION MODULE (AZI P/N: 990-0223 or 990-0225)**

The Jerome 10:1 Dilution Module is used when the gas concentration to be sampled is known to be higher than the Jerome Instrument is capable of measuring. The sample stream is diluted in a 10:1 ratio, within  $\pm 10\%$ , by diluting a portion of the sample stream with filtered fresh air, to bring the concentration within the range of the instrument. The Dilution Module is not recommended for diluting low levels of gas that are already within the range of the Jerome instruments.

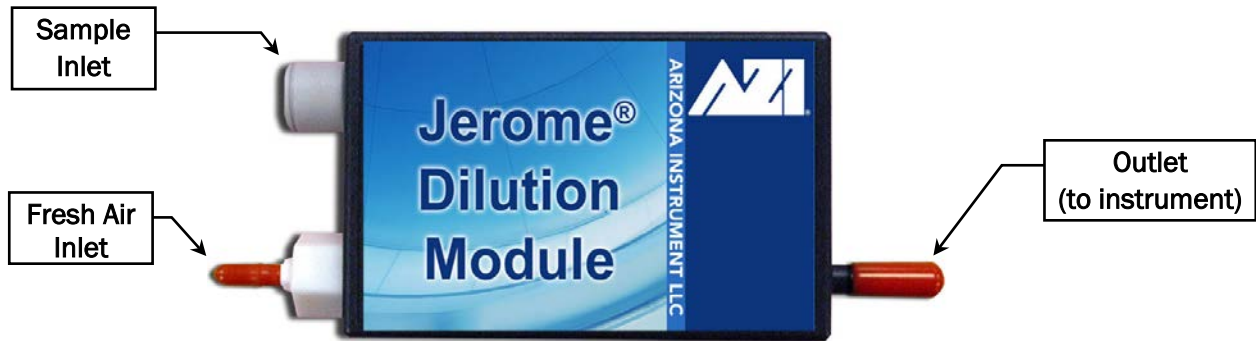
**Always follow all necessary safety precautions for hazardous gas concentrations.**

To use the Dilution Module, first remove the red caps from the outlet and fresh air inlet. Then insert the outlet fitting into the Jerome Instrument intake fitting as shown in the Figures below. When the sample button is pressed on the instrument, the sample is pulled through the sample inlet, diluted in a 10:1 ratio, and passed to the instrument for analysis. The inlet can be attached to 1/4" rigid tubing if desired. The fresh air inlet (barbed fitting) should not be restricted or blocked.

The reading displayed on the Jerome Instrument will be 10 times lower than the actual sampled concentration with a tolerance of  $\pm 10\%$  plus the instrument's specified accuracy at the diluted concentration.

**Examples:**

Instrument Reading	Multiply by 10	Actual Gas Concentration
5ppm	5ppm x 10	50ppm
0.110mg/m <sup>3</sup>	0.110mg/m <sup>3</sup> x 10	1.10mg/m <sup>3</sup>



**Figure 1 - Dilution Module**



**Figure 2 - J405 / J505 / J605 with Dilution Module**



**Figure 3 - 431-X / 631-X with Dilution Module**