

Operation (continued)

The Zero Mode is essential in establishing a true zero baseline and for standards addition calibrations. The Span Mode is the main calibration gas mode that combines a ratio of dry calibration gas with wet (humidified) gas to form a humidified mixture that can be varied up to 90% RH (in some cases). The Span Mode is used for dynamically creating humidified trace concentration gas standards that mimic ambient conditions with a range from ~20% to 90% RH (depending on operating factors). Lastly, the Purge Mode is used for cleansing the system between calibrations or when application requirements change.

Relative humidity percentages are determined both by an accurate internal temperature/%RH sensor and an accurate external temperature/%RH sensor. The internal sensor provides diagnostic information of the gas stream as it mixes dry gas with wet gas before exiting the instrument. The external sensor is designed for inline measurement of calibration gas delivery to the analyzer or device under test (DUT) just before analysis. The external sensor provides feedback control to the microprocessor for automating flow control of the wet to dry gas ratio at delivery conditions. The external sensor is an important factor in maintaining desired %RH and gas stream concentration. Combined with the FlexLink™ Software, data logging and remote control of instrument functions is possible.

The FlexStream™ HG makes a great addition to the FlexStream™ system of modules and provides an excellent and accurate calibration tool for many Ambient Air Monitoring, Continuous Emissions Monitoring (CEMs), Breath or Odor applications.

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