

TELEDYNE HASTINGS

INSTRUMENTS

APPLICATION NOTES

Goal: Combine Vacuum and Flow Instrument in Leak Check Application

Solution: Teledyne Hastings HFC-302 Flow Controller and HPM-760 Digital Vacuum Sensor



Safety equipment manufacturers devise a number of ways to test the functional integrity of their products. One method is a non-destructive test combined with simulated vital human breathing capacity.

The HFC-302 low range controller and the HPM-760 vacuum sensor were used together to replicate full-face mask usage. The Teledyne Hastings flow instrument was selected due to its fast response characteristic; the vacuum instrument for its linearity. In this application, the leak rate is calculated as a function of a maintained vacuum level.