**Bump Test Cylinder and Bump Test Regulator Instructions**

Bump testing is a functional test in which a unit’s installed sensors are briefly exposed to (or “bumped” by) calibration gases in concentrations that are greater than the sensors’ low-alarm setpoints. Exposure to calibration gas will cause the unit to go into low alarm and indicate which sensors pass or fail the response test. Bump test cylinders (part numbers 18102283, 18102665, 18103143, 18105825, 18109203, and 18109216) and bump test regulators (part number 18103580) are designed to facilitate bump testing of Industrial Scientific gas monitors.

To use the bump test cylinder:
1. Install the calibration cup with tubing assembly on the diffusion instrument.
2. Insert the supplied red injector tube into the valve nozzle.
3. Insert the other end of the red injector tube into the calibration cup tubing.
4. Press the button or pull the trigger on the bump gas cylinder for one second to release gas into the calibration cup.
5. Verify that the alarms respond to gas as expected.

To use a bump test regulator:
1. Install the calibration cup with tubing assembly on the diffusion instrument.
2. Attach a small piece of tubing to the bump test regulator.
3. Insert the other end of the tubing to the calibration cup.
4. Press the button or pull the trigger on the bump gas regulator for one second to release gas into the calibration cup.
5. Verify that the alarms respond to gas as expected.

*Note: Bump test cylinders and calibration gas cylinders using the bump test regulator should *not* be used with aspirated instruments. Doing so may cause damage to the instrument’s sampling pump flow switch.*

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Sincerely,

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