SUNSTAR传感与控制 http://www.sensor-ic.com/ TEL:0755-83376549 FAX:0755-83376182E-MAIL: szss20@163.com Application Note: A 36



Gas calibration should be done a minimum of once every six months (at least ZERO calibration).

CALIBRATION INSTRUCTIONS:

- 1. Remove protective cap from top of nitrogen cylinder. Push and thread pressure regulator valve onto cylinder outlet.
- 2. Connect plastic tubing from pressure regulator outlet to flow meter inlet. (bottom connection of flow meter)
- 3. Connect plastic tubing from flow meter outlet (top connection) to unit to be tested.
- 4. Make sure unit to be tested is turned on and has had a 5 minute warm-up.
- 5. Connect voltmeter to voltage signal output or observe signal output on field test unit.
- 6. Make sure flow meter is in an upright position. Open flow valve slowly while observing flow meter.
- 7. Adjust the flow to between 200 300 ml/min.
- 8. After 3 minutes of continuous nitrogen flow, observe signal output and perform zero adjustment (0.00 volts) if required.
- 9. Turn off flow valve and remove pressure regulator valve from nitrogen cylinder.
- 10. Replace nitrogen cylinder with cylinder containing 5.0% CO₂.
- 11. Open flow valve and observe signal output. (see scale data for voltage reading)
- Allow sample to flow until final indication is obtained. Adjust span potentiometer if required. (see scale data for voltage reading at 5.0%) 1.00 volts for a Model 2008 5% CO₂ full scale. (If you use 1% CO₂ the output should be 0.200 volts)
- 13. Turn off flow valve and remove pressure regulator from cylinder.

SUNSTAR传感与控制 http://www.sensor-ic.com/ TEL:0755-83376549 FAX:0755-83376182E-MAIL: szss20@163.com



SUNSTAR自动化 http://www.sensor-ic.com/ TEL: 0755-83376489 FAX:0755-83376182 E-MAIL: szss20@163.com