

MODEL 330 AND 331 HYDROGEN SULFIDE ANALYZER

ANALYZER CLEANING INSTRUCTIONS

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Cleaning an Envent Engineering Ltd. H2S Analyzer Sample System

Leave the sweep valve on the sample filter slightly open at all times. This will decrease the the likelihood of contamination.

If the analyzer requires cleaning on a regular basis, the sample point may have to be re-located or additional sample conditioning be required. Please consult Envent Engineering.

During startup or plant upset situations, the H2S analyzer may become contaminated with H2S scavenger solution.

This will cause the analyzer to read lower than the actual H2S concentration. This can be determined at calibration. The analyzer will read low and require incremental increases in the gain to maintain calibration. Please refer to factory calibration sheet for the default gain factor.

The flowmeter should be inspected for liquids and to ensure the float moves freely.

The scavenger solution is water soluble and therefore is relatively easy to clean.

Cleaning Material List.

Alconox Laboratory cleaner or equivalent residue free cleaning agent. Do not use solvents, brake cleaner, soaps or detergents.

Fresh clean water.

100% Isopropyl Alcohol. Do not use rubbing alcohol

Large bucket to mix cleaning solution

Rinse bottle

Procedure:

Mix 1% (2-1/2 tbsp per gal.) of Alconox cleaner in warm water.

Sample Tubing

Shut off flow at the sample point prior to sample system

Flush the sample line and components with cleaning solution

Rinse with fresh water

Flush with isopropyl alcohol

Dry with clean, dry instrument air or gas

Sample System

Note: Dis-assembly of the pressure regulator and solenoids in the field is not advised. Consult the factory if the regulator or solenoid appears contaminated

Remove the filter element from the filter housing and discard

Remove all sample system components and soak in cleaning solution

Ensure valves are fully open when cleaning. 3-way valves should be cleaned with handle in all positions.

Flush the sample components with fresh water

Rinse with isopropyl alcohol

Blow dry with clean compressed air or fuel gas

If Tygon tubing (flexible tubing connecting humidifier) appears discolored, replace with new tubing

Install new filter elements into filter housings

Re-assemble Stainless Steel Tubing to analyzer according to analyzer drawing (refer to the back of the manual)

Once sample system has been re-assembled. Apply calibration gas to the analyzer.

Adjust gain to indicate value from calibration certificate

Gains for streams should be +/- 2.00 from the factory calibration sheet or the last calibration. If the reading is not within range, then system may need further cleaning. Please consult factory.