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12-002

02 February, 2012

SAMPLE HYDRATOR INSTALLATION FOR H₂S INSTRUMENTS

I. PURPOSE:

We have found that the SO₂ scrubber used in M101E and T101 analyzers is more efficient if the sample being drawn into is humid. This modification should only be performed in applications with a high background of SO₂ and/or where the sample gas is very dry. The addition of this hydrator will raise the relative humidity of the sample causing the SO₂ scrubber to become more efficient.

II. TOOLS:

Philips head screwdriver

III. PARTS:

076010000 H2S SAMPLE HYDRATOR
Distilled Water

IV. PROCEDURE:

1. Install the two brackets to the back panel of the analyzer using four 8-32 ¼" screws.
(See Figure 1)

***NOTE* Do not use screws longer than ¼" as this will short out the motherboard and cause damage to the unit.**

2. Fill the canister with Distilled water up to the "MAX WATER LEVEL" as indicated on the canister.
3. Place the water canister on the back of the unit (See Figure 1). Ensure that the water level is at or below the maximum fill line. Failure to do this can cause flooding in the unit.
4. Plumb the top of the canister to the Sample Inlet fitting (See Figure 1) and ensure that all fittings are tight. The fitting on the front of the canister will now become your sample inlet.
5. Replace the water in the canister every month, or as needed, making sure to disconnect the fitting at the sample inlet on the analyzer before removing canister to avoid flooding the unit.

Sample hydrator for H2S instruments Installation
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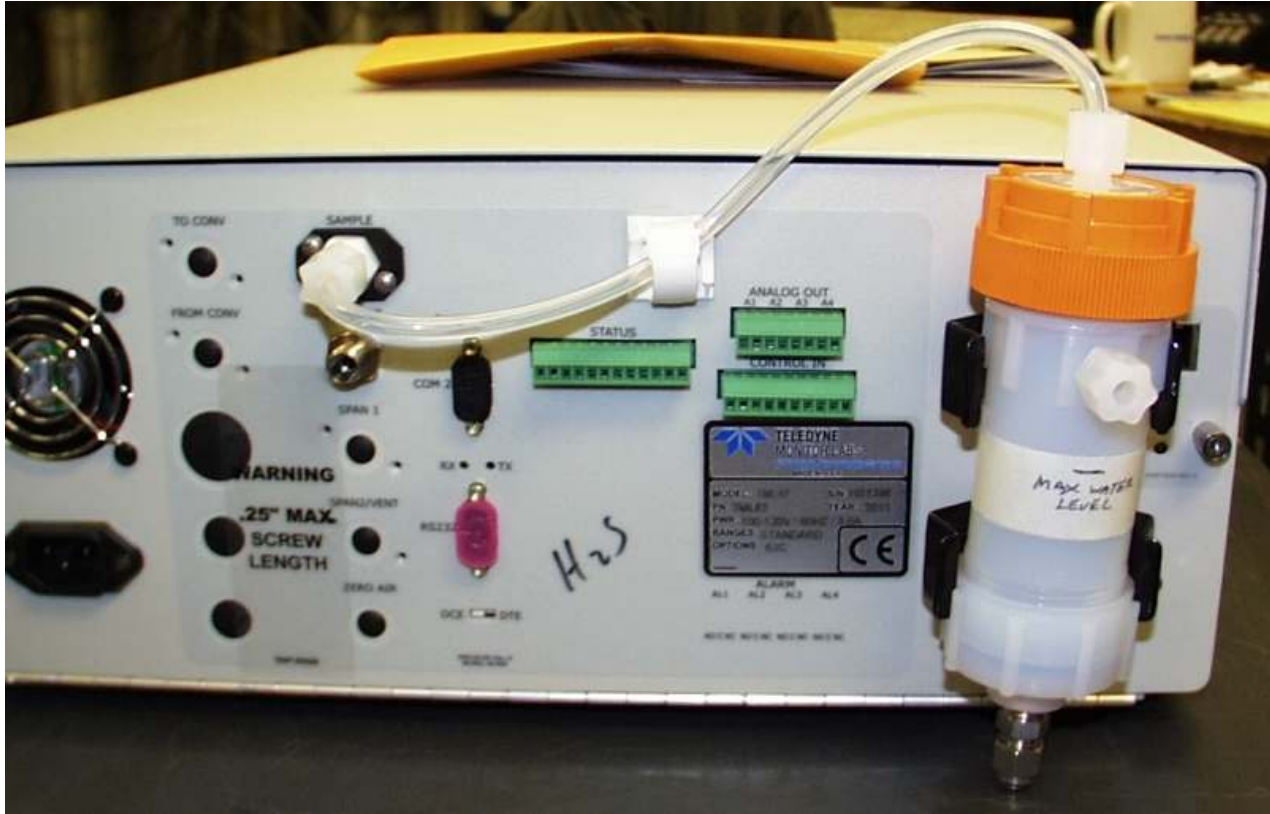


Figure 1 – Sample Hydrator for H₂S Installed

Sample hydrator for H₂S instruments Installation
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