



**TELEDYNE
INSTRUMENTS**

Advanced Pollution Instrumentation

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Service Note

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ZERO/SPAN VALVES RETROFIT IN API CO ANALYZER M300 INSTRUCTIONS

SUBJECT: The following instructions provide the necessary information on how to retrofit ZERO/SPAN valves option into API M300 CO analyzer.

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TOOLS:

1. Philips head screwdriver.
2. A pair of adjustable wrenches.
3. API zero/span valves M300 retrofit kit (API part number 01942).

PROCEDURE:

1. Turn the power off.
2. Remove the screws holding the cover and take the cover off.
3. Disconnect the 1/8" tubing between "SAMPLE" inlet bulkhead fitting and the sample filter (to avoid leaking use two wrenches to disconnect the fitting).
4. Mount "Z/S--SAMPLE/CAL VLV" valve into the analyzer (use drawing 00300 step 4 for reference).
5. Mount "SHUT OFF" valve into the analyzer (use drawing 00300 step 5 for reference).
6. Install "VENT/SPAN" and "PRESSURE SPAN" stainless steel bulkhead fittings into rear panel and "AIR IZS" brass bulkhead fitting into the rear panel of the analyzer (use drawing 00300 step 6 for reference).
7. Connect 1/8" tubing between sample filter, rear panel bulkhead fittings, "Z/S - SAMPLE/CAL VLV" and "SHUT OFF" assemblies (use drawing 00300 steps 7.1...7.7 for reference). **CAUTION:** Make sure you do not overtighten the fittings.
8. Connect the power cables to the valve assemblies. Green and white cable with the "SAM/CAL" label to "Z/S - SAMPLE/CAL VLV" (use drawing 00300 step 4 for reference). Green and yellow with the "S/O + Z/S" label to "SHUT OFF" valve (use drawing 00300 step 5 for reference).
9. Leak check the analyzer.
10. Put the cover back on.
11. Turn the power on.
12. Check all the test parameters.
13. Check the sample flow in both "SPAN CALIBRATION" and "ZERO CALIBRATION" modes.
14. Recalibrate the analyzer.

If you have any troubles or questions following the above procedure, please call customer service.

