



**TELEDYNE
INSTRUMENTS**

Advanced Pollution Instrumentation

A Teledyne Technologies Company
9480 Carroll Park Drive, San Diego, CA 92121-5201
Phone (858) 657-9800 Fax: (858) 657-9818 Toll Free 1800 324-5190
E-mail: api-customerservice@teledyne.com <http://www.teledyne-api.com>

Service Note

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GROUNDING OF M100A UV DETECTOR

SUBJECT: Information on how to improve the performance of the M100A analyzer.

TOOLS: Philips head screwdriver, any sharp device to take the paint of the metal, 3" piece AWG=18...22

PROCEDURE:

1. Turn the power off.
2. Take the cover of the analyzer off.
3. Remove the power cord from the analyzer.
4. Loosen the screws on the rear panel
5. Unfold the rear panel down.
6. Loosen the screws on the cover of the UV detector, and remove the cover (see the drawing 01100 "M100A PNEUMATIC DIAGRAM" attached, step 6).
7. Clean both sides of the UV detector cover surface around one of the holes (scratch the paint off until you see a bare metal, what will provide a good ground). (see the drawing 01306 "COVER, UV DETECTOR MODEL M100A" attached, step 7).
8. Put the cover back on.
9. Take a piece of the wire approximately 3" long.
10. Clean the insulation on both sides of the wire.
11. Connect the wire between the chassis and the exposed part of the UV lamp detector cover. Use the screw to attach the wire to pim-nut, closest to the detector. Make sure the wire provides a good electrical connection between the UV lamp detector cover and the chassis.
12. Put the UV lamp detector cover back on.
13. Put the cover of the analyzer back on.
14. Turn the power on.
15. Verify the correct performance of the analyzer.
16. If you have troubles following the above procedure, please contact API customer service.