



99-006 Rev B
2 May, 2007

NEW UV LAMP PREAMP WITH POT (INFO ONLY)

I. SCOPE:

The goal of this Service Note is to inform our customers of a new design of UV lamp preamp card for the M100A, M101A and M102A analyzers and which one to use for your analyzer.

II. BENEFIT:

We have a new UV lamp preamp card for the M100A analyzer that has an adjustable pot on it so that you can vary the output signal from the preamp card to the CPU. What this means is that you can extend the life of the lamp and it makes maintenance on the analyzer easier as you will not have to adjust the physical placement of the lamp when you need to increase the lamp intensity as you see it at the front panel. If installing a new lamp into an analyzer you will most likely have to “off peak” the lamp so that you do not saturate the reading on the front panel (5000 mV). With the new preamp card you can install your new lamp and turn down the gain on the preamp card and peak the lamp to its maximum intensity. When the lamp starts to decay over some period of time, all you will have to do is turn up the gain on the preamp card and then recalibrate the lamp in the DIAG menu (this is vitally important), and then recalibrate the analyzer per the instructions in the manual. The advantage of this is that you do not have to readjust the physical position of the lamp when the UV lamp intensity drops down over some period of time. We have also increased the total gain of this circuit a little so that your lamps should last longer.

III. IDENTIFYING:

Some of the first M100A analyzers that we built have the ribbon cable (that connects the preamp to the motherboard) soldered onto the preamp card. If your analyzer has this configuration then you are going to have to change the ribbon cable and back plate assembly and should follow the Service Note 99-017. If your preamp card has the ribbon cable that unplugs from the bottom of the preamp card then follow the Service Note 99-005. To tell which style of circuit board configuration you have, turn the unit off and remove the cover. Locate the preamp assembly at the rear of the reaction cell sensor. Put your hand under the preamp card and locate the ribbon cable. Pull down gently on the ribbon cable. If the cable comes off the preamp card then you will need to follow Service Note 99-005. If the cable does not come off the preamp card then you will follow Service Note 99-017.

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If you have questions regarding this procedure or any API equipment, please contact an API Customer Service representative:

Phone: (619) 657-9800

Email: customerservice@advpol.com

Fax: (619) 657-9816

WWW: <http://www.advpol.com>

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