TELEDYNE
INSTRUMENTS
Advanced Pollution Instrumentation

A Teledyne Technologies Company

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Service Note

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NO$_X$ PUMP PACK – ELIMINATION OF THE CHARCOAL SCRUBBER

I.   PURPOSE:
To inform the customer of a change in the M200A, 200AH, and 200AU analyzers regarding the ozone removal system.

II.   TOOLS:
N/A

III.   PARTS:
N/A

IV.   PROCEDURE:
Teledyne API is pleased to announce that we have implemented a change to the above NOx analyzer models which will improve the safety of the analyzers as well as reducing the periodic maintenance requirements.

The Charcoal Ozone Scrubber, which has been placed on the exhaust of the Pump Pack to remove ozone and NO$_2$ from the exhaust of the analyzer, has been removed from all Model 200A, 200AH and 200AU analyzers.

The charcoal scrubber has been replaced with a Catalytic Ozone Scrubber. We are installing the Catalytic Ozone scrubber to eliminate the need for replacing the charcoal. If the charcoal in the original scrubber is not changed on a regular basis, O$_3$ breakthrough can occur which will damage the pump and could present a health hazard if the pump was not sufficiently vented to the outside air.

For over three years this Catalytic Ozone Scrubber has been successfully tested in the field and has proven efficient, reliable and maintenance free.

Teledyne API has always recommended that pump packs be vented to outside air to avoid the potential for O$_3$, NO$_2$ and other pollutants to build up in the room. Since the Catalytic Ozone Scrubber does not remove NO$_2$ from the exhaust stream, as the charcoal scrubber did, it is even more important that the pump pack be vented outside of the room. If for any reason this cannot be done then the customer should install a Charcoal Scrubber (available from Teledyne API as Option 64) on the analyzer's exhaust to remove NO$_2$ from the exhaust stream.