



**TELEDYNE  
INSTRUMENTS**

*Advanced Pollution Instrumentation*

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*Service Note*

**99-019 Rev B  
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**CALIBRATING HIGH CONCENTRATION NOX ANALYZERS**

**I. SCOPE:**

The purpose of this note is to help our customers accurately calibrate their high concentration NOx analyzers using a dilution style calibrator.

**II. PARTS:**

None

**III. TOOLS:**

None

**IV. PROCEDURE:**

If you are going to calibrate a high concentration NOx analyzer and you are using a dilution style calibrator, you must use N<sub>2</sub> as your diluent. If you use air and not N<sub>2</sub>, you might not get an accurate calibration on your analyzer.

**Note:** If you are using N<sub>2</sub> as your diluent, keep in mind that you can only use your calibration gas for a short period of time (approx. 30 minutes). If you run longer than 30 minutes, you might find that the efficiency of the converter might start to fall off due to oxygen deprivation. To fix this, allow the unit to run on sample for a few minutes and the converter will “re-charge”.

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

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