



03-004B
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INSTALLING A NO_x CONVERTER INTO A M200E/EH

I. PURPOSE:

To provide instructions on how to install a Nox converter into an M200E/EH NO_x analyzer & how to configure the firmware so that it controls the temp of the converter to the proper temp. A Moly converter will run @ 315°C & a Mini-Hi-con will run @ 700°C.

II. TOOLS:

7/16" wrench
1/2" wrench
#2 Phillips head screwdriver

III. PARTS:

Replacement Converter

IV. PROCEDURE:

1. Turn analyzer off, remove power cord from rear panel & remove cover from analyzer.
2. Allow analyzer to cool, this could take a few hours.

WARNING this converter is VERY HOT & can cause severe burns if not allowed to cool.

3. Disconnect the two tubes coming out of the front of the converter.
4. Disconnect the Thermo Couple from the connector on the RELAY BOARD (See diagram in the manual for the location of the Relay Board).
5. Trace the heater cables out of the converter to their connector & disconnect it.
6. Remove the converter from the analyzer
7. Install the new converter in the reverse order of the old converter
8. Connect the TC & heater cables.
9. Connect the IN & OUT tubes to the converter
10. Connect the power cable to the back of the analyzer & power up the analyzer.
11. Once the analyzer has booted up, push: SETUP-MORE-VARS-929-ENTER-NEXT until you come to the VAR that is labeled CONV_TYPE (note that this VAR should be around number 69, it might be a bit smaller or larger than 69, but close to it). push EDIT & then select the type of converter you are installing into the machine. If you are installing a Mini-hi-con select the "CONV" type. If you are installing a MOLY converter select "MOLY". Push ENTER & then EXIT all the way back out to the main "SAMPLE" menu. Wait 20 seconds, turn the analyzer off, wait 20 seconds & turn the analyzer back on.
12. Once the analyzer has booted up, push the TST> button until you come to the converter temp & watch it. If you have installed a Moly converter it should goto 315°C, if you have installed a Mini-hi-con, the temp should goto 700°C. if the temp overshoots the target by 5 or 10°C, but then comes back down to the set point, that is OK, if it overshoots & continues going, turn the machine off & call the API Tech service @ 858 657 9800 or email @ API-customerservice@teledyne.com & we will help you figure out what is wrong