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J. Mack Cowan
Scientific Director
Texas Department of Public Safety
PO Box 4087
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Dear Mr. Cowan,

It was a pleasure to talk to you. Below you will find the answers to your questions concerning the DVM range in the Intoxilyzer 5000-68 and Intoxilyzer 5000-68 EN.

During the auto-calibration procedure, for both the Intoxilyzer 5000-68 and Intoxilyzer 5000-68 EN, a DVM is established by the instrument for each of the five channels. All five of the DVMs must be within a range of 3328 to 3584. If any one or more of the five DVMs is less than 3328 or greater than 3584, the instrument will fail auto-calibration and the procedure will be automatically terminated.

Once an instrument has passed the auto-calibration procedure, the five DVMs are allowed to move out of the auto-calibration range of 3328 to 3584. The DVMs do not have to be within the range of 3328 to 3584 for an Intoxilyzer to operate properly. Prior to every evidential breath test conducted in Texas, the DVM for each channel is checked to determine if it is within the range of 7 to 4088 as a part of the Circuitry Check, also known as the Diagnostic Check. If any one or more of the DVMs is out of this range, the instrument will fail the Circuitry Check and the test will be automatically terminated.

Auto Range is a diagnostic tool that is helpful in determining if an Intoxilyzer is capable of being auto-calibrated. This function is located in the H submenu as option R. When "R" is entered, the instrument temporarily attempts to set all five DVMs to within the range of 3328 to 3584. If the instrument cannot set all five DVMs to within this range, the Intoxilyzer will display "AUTO RANGE FAIL" indicating that the instrument is in need of repair. Once the Auto Range process is completed, the DVMs are returned to their pre-Auto Range values. The DVMs do not have to be within the range of 3328 to 3584 for an Intoxilyzer to operate properly.

Glen Gilbreath
Principal Engineer

INTOXILYZER® ...so you can breathe easier

