

GD Bump Test Certificate

Product Description _____	Bump Test Gas _____
Danfoss Type _____	Ampoules _____
Danfoss Code No. _____	Lighter _____
GD Sensor PCB Serial Number _____	Ammonia water _____
Original Date of Calibration _____	Range of Bump Test Gas _____
Date of Last Calibration _____	

Bump test procedure

1. On arrival on site, check if the customer wishes to test the entire system including connections to external systems or does he wish to isolate the GD from external alarms etc.
2. Visually check exterior of GD for water damage, dust collection or physical damage.
3. Remove cover - check LEDs - power on - green LED, and no alarms - yellow and red LED off. Remove connections to external systems if instructed. See 1).
4. Disable any delays, remove power to activate change, reconnect power, and wait 5 minutes for normalisation.
5. Connect volt meter to 0-10V output, Con3 pin 1 and 3. Check output is almost 0 Volts. (Assuming no gas present). If necessary adjust using the zero span potentiometer.
6. Carry out bump test using ampoules or alternative method as per Bump Test instruction. (See Literature No.: PIS00A152)

Bump test executed.

Sensor responded and passed test Yes No ¹⁾

7. If test is satisfactory then proceed to test GD functions using the GD Tester.

Function test of GD Gas Detector

1. Disconnect power
2. Remove Sensor PCB
3. Install GD tester (see separate instruction for GD tester - literature No. DKRCI.PI.S00.B)
4. Connect power
5. Adjust GD tester to generate Low Alarm level OK
6. Adjust GD tester to generate High Alarm level OK
7. Adjust GD tester to generate Analog Output in the range of: 4-20 mA, 0-10 V and 0-5 V. OK
8. Disconnect power and remove GD tester
9. Replace Sensor board. Restore original settings and power up. Wait 5 minutes to ensure GD normalises (Measure the 0-10V output and ensure that the sensor output moving towards 0 V, i.e. sensor is normalising correctly).

We hereby certify that the above specified test procedure has been performed and the GD is responding.

Test performed by _____ _____
Signature *Date*

¹⁾ If sensor did not respond correctly and so did not pass the test, then the sensor PCB must be renewed. This certificate cannot be signed. Issue the GD Sensor PCB Calibration Certificate when the sensor PCB has been renewed.