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Introduction

For Your Safety

Like any piece of complex equipment, the GfG DS 220 will do the job it is designed to do only if it is used and serviced in accordance with the manufacturer’s instructions.

CAUTION: For safety reasons, this equipment must be operated and serviced by qualified personnel only. Read and understand the instruction manual completely before operating or servicing this device.

The warranties made by GfG with respect to the product are voided if the product is not used and serviced in accordance with the instructions in this manual. Please protect yourself and your employees by following them. The above does not alter statements regarding GfG’s warranties and conditions of sale and delivery.

Application and Use

The DS 220 is an automatic system for calibrating and bump testing the MICRO IV.

Connections and Operation Elements
Positioning and Putting into Operation

Place the docking station on a hard level surface.

Make sure that the test gas can be vented easily and without back pressure! The test gas supply is controlled by a pump built into the docking station.

Before starting, make sure that the connections for gas inlet, gas outlet, pressure switch (if applicable), main supply and PC connection or connections to additional docking stations are performed as shown in the picture on page 2.

Handling

The green switch turns the docking station on or off. When the docking station is turned on, the switch is illuminated green.

The docking station allows the user to select between bump test or calibration by pressing the red button. When the red button is lit, calibration is selected – otherwise a bump test will be performed.

Bump Test

The docking station allows up to 6 detectors to be tested simultaneously. The bump tests will start automatically. Bump tests or calibrations can only be effected for MICRO IV detectors for the same gas and detection range. For detectors with a different gas or a different range you have to supply a different test gas, and the parameters of the docking station have to be set accordingly by means of the configuration software. When you put a detector in the docking station, the yellow LED flashes (for approximately 10 seconds). During this time additional detectors may be added to the other slots. When the LEDs are permanently lit (test failed / test running / test ok), additional detectors will not be recognized. The test results are like a traffic light signal for every detector:

- **Red** Detector Failed
- **Yellow** Test Running
- **Green** Detector Passed

Once the test has been completed (red or green LED), remove the detectors and replace them with additional units. Additional detectors can only be tested if checked units have been removed.
Extent of Bump Test

During the bump test the following parameters are checked:

- Time and date
- Audible alarm
- Visual alarm LED
- Response time of sensor, response sensitivity
- Detector fault
- Time interval setting for next bump test, e.g. 14 days

Calibration

Use the red button to switch the docking station over to calibration. For calibrating the detectors the red button must be lit.

The docking station allows calibration of up to 6 detectors simultaneously. Calibration starts automatically. Calibration is only possible for one gas only.

When a detector is placed in the docking station, the yellow LED flashes (for approximately 10 seconds). During this time you can add additional detectors to the other slots.

As long as the LEDs are permanently lit (calibration failed / calibration running / calibration ok), it is not possible to put in additional detectors, as these would not be recognized.

The test results are like a traffic light signal for every detector: