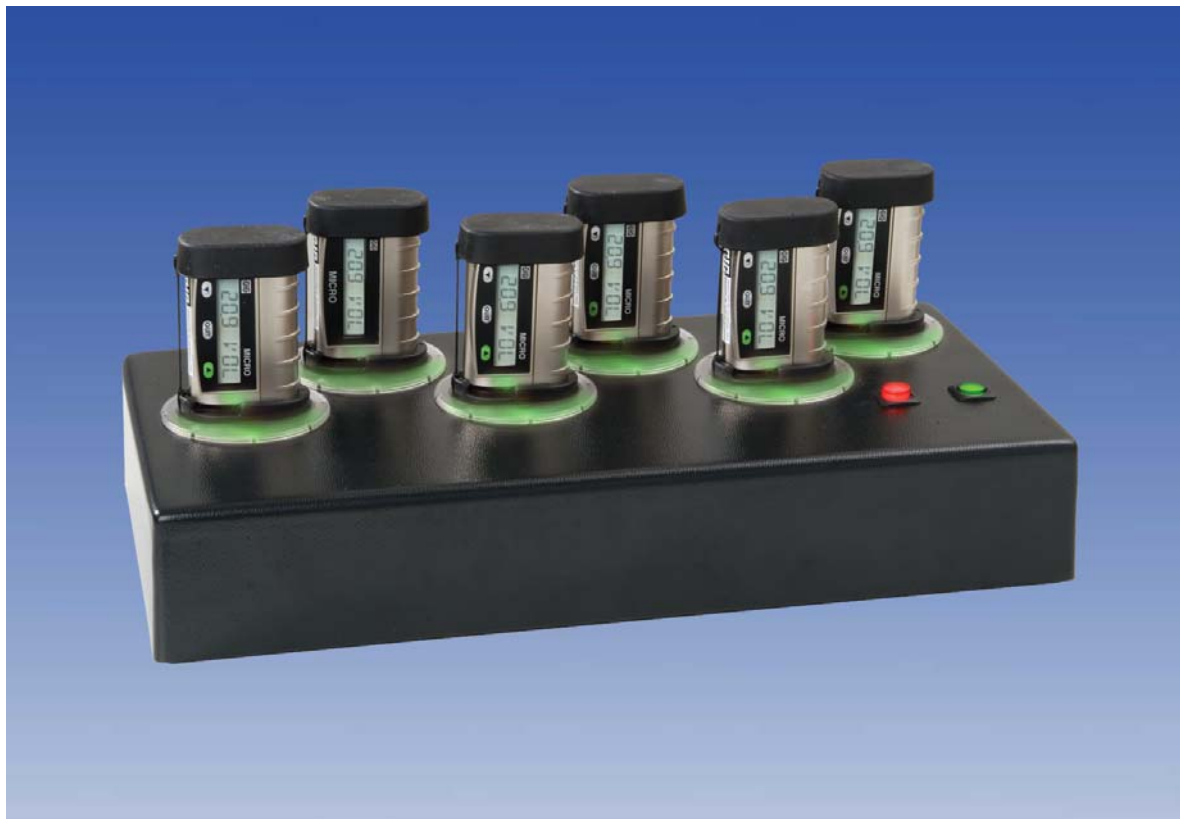




Operation Manual

DS220

Docking Station for MICRO IV



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Introduction

For your Safety

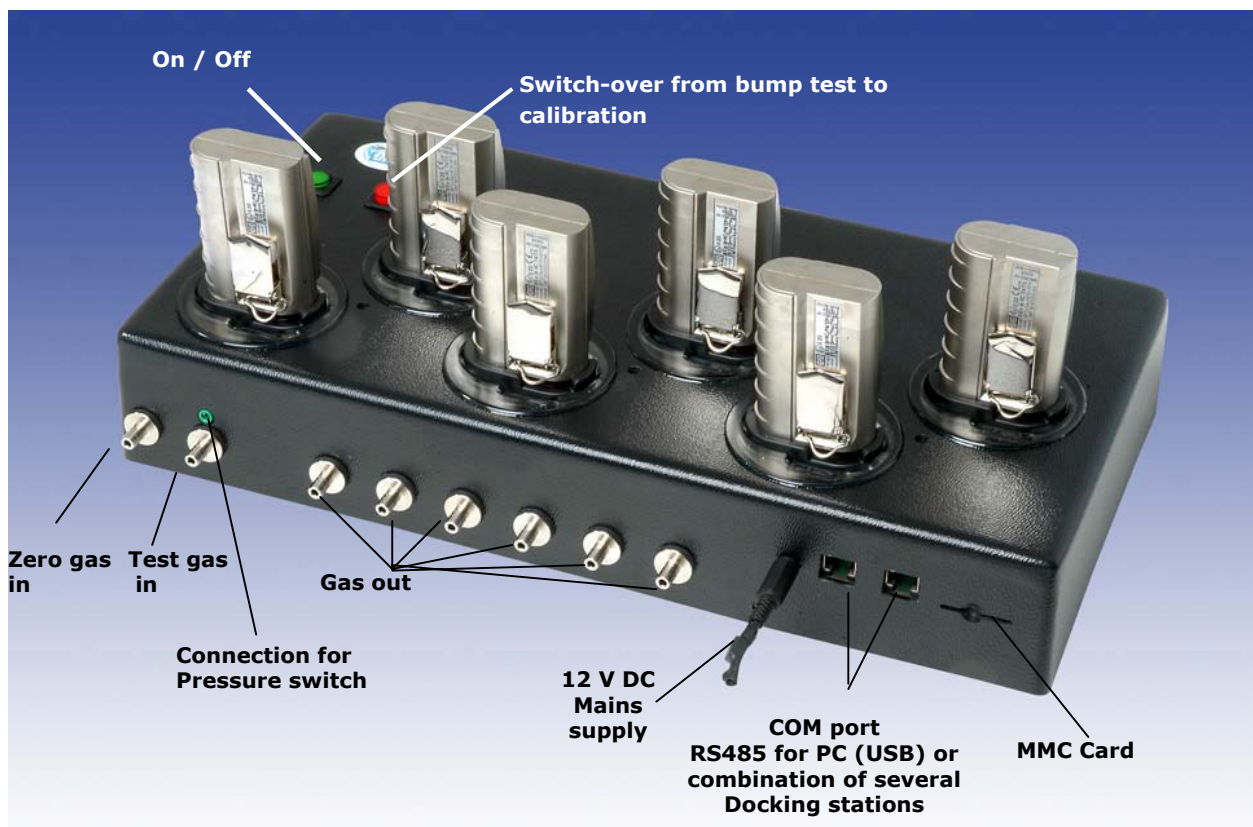
Please note all hints and remarks to avoid affecting the warranties in regard to function and safety. Damages due to non-adherence to the instructions are not covered by GfG's warranties. The conditions of warranty and liability stated in GfG's general terms for delivery and payment are conditional upon the following:

- This product must only be put in operation after reading the operation manual and the relevant documentation.
- This product must only be put in operation by qualified experts who are familiar with the legal requirements.
- This product is only designed for industrial and commercial use and must always be used according to the manufacturer's instructions.
- Repairs must only be done by trained persons.
- The manufacturer's liability for damages is voided in case of unauthorized modifications of the product.
- Only genuine GfG spare parts are allowed to be used for repairs.
- We reserve the right to make technical modifications.

Application and Use

The docking station DS220 is an automatic system for calibration and bump test of the gas detector MICRO IV.

Connections and Operation Elements



Positioning and Putting in Operation

Place the docking station on a hard level surface.

Make sure that the test gas is vented easily and without back pressure! Test gas supply is effected by means of the pump built into the docking station.

When starting up make sure that the connections for gas inlet, gas outlet, pressure switch, mains supply and PC connection resp. connection to additional docking stations are performed as shown in the picture on page 3.

Handling

Use the **green switch** to **turn 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**. Use the red button for selection. When the red button is lit, calibration is selected – otherwise you will do a bump test.

Bump test

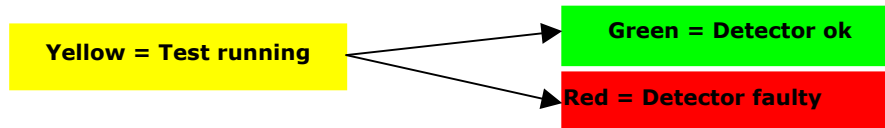
The docking station allows up to 6 detectors to be tested simultaneously. The bump tests will start automatically. Bump tests or calibrations can only be effected for MICRO IV detectors for the same gas and detection range.

For detectors of 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 (approx. 10 seconds). During this time you can add additional detectors to the other slots.

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

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



Once the test is completed (red or green LED), you should immediately remove the detectors and replace them with other units. Further 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 set
- Buzzer test
- Visual check / alarm LED
- Response time of sensor, response sensitivity
- Detector fault
- Time interval setting for next bump test, e.g. 14 days

Calibration

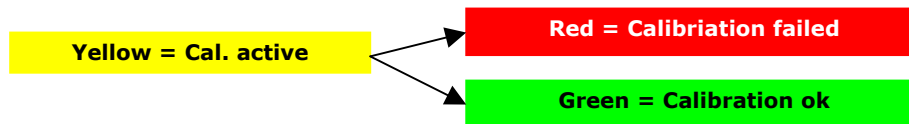
Use the red button to switch the docking station over to calibration. For calibrating the detectors, the red button must be lit.

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

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

As long as the LEDs are lit permanently (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 signaled like a traffic light for every detector:



Data Logging / Transfer to a PC

All information about bump test and calibration of individual detectors can be stored on a MMC card (if fitted). Data transfer to a PC is effected automatically, if the docking station has been connected to the PC (see page 3). The data can also be sent via a card reader without having to connect the docking station to a PC.

Test data to be stored both in the PC data base and on the MMC card:

- Serial numbers of detectors and of sensors
- Docking station ID
- Test mode: Calibration, Zeropoint, Bump Test
- Date and time
- Gas concentration
- Number of test gas bottle
- Bump test: Time (in ms) for alarm 1, Zeropoint: Display before adjustment, Calibration: Display before calibration
- Bump test: Time (in ms) for alarm 2, Zeropoint: Display after adjustment, Calibration: Display before calibration
- Zeropoint: Correction in mV, Calibration: Correction factor --- before
- Zeropoint: Correction in mV, Calibration: Correction factor --- after
- Buzzer ok, visual alarm ok, confidence bleep ON
- Battery capacity

Accessories

Description	Part No.
Patch cable for data transfer and connection of several docking stations, different lengths available:	
1m	1319222
3m	1319223
5m	1319224
8m	1319225
10m	1319226
Gas fitting, type 2001, 2-step pressure reducer for calibration gas supply by means of pump, for test gas cans type 2 AL, 8 AL or 6D, max. inlet pressure: 0-1000 psig/70bar	1319216
Gas fitting, type 2003, 2-step pressure reducer for calibration gas supply by means of pump, for high pressure bottles; incl. connection for high pressure bottles (M19x1.5LH), max. inlet pressure: 0-3000 psig/207bar	1319217
Pressure switch for high pressure bottles incl. T-piece for mounting on gas fitting type 2003, pressure adjustment range: 65-300 psi/4.5-20.7 bar	1319218
MMC card, for storing of detector specific data and test procedures, different capacities available	1319231
Data base software for automatic recording of detector data, Detector tests, test data and test procedures	1319203

Technical Data

Type:	DS220 Docking Station
Operating elements:	green button for On / Off red button for selection between calibration or bump test
Gas flow:	30 l/h – mx. 180 l/h
Current supply:	12 V DC
Enclosure	Material: ABS Dimensions: 400 x 65 x 200 mm (WxHxD)

**Worldwide Supplier of
Gas Detection Solutions**



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