



# PDM MULTI DOCK MANUAL

**BUMP & DOCKING STATION** 



## PDM MULTI DOCK BUMP & DOCKING STATION



## **CONTENTS**

Cor	ntents	2
War	rning	3
1.	Overview	4
2.	PDM Dock Confuguration	5
3.	Log Configuration	7
4.	Specification	8
5.	Limited Warranty	9





### **WARNING**

- Any unauthorized attempt to repair or modify the product, or any other cause of damage beyond the range of the intended use, including damage by fire, lightening, or other hazard, voids liability of the manufacturer.
- Do not use if the device appears to be damaged.
- Use the device in a clean environment, which has no hazardous gases.
- Do not use the expired gas cylinders.
- Ensure to use the certified gas cylinders.
- · Ensure gas types and concentrations match with manuals and devices.
- Severe vibration or shock to the device may cause a sudden reading change and cause the device malfunction.
- Do not allow water and liquids to reach this device.

#### **READ THE OPERATION MANUAL BEFORE USE**

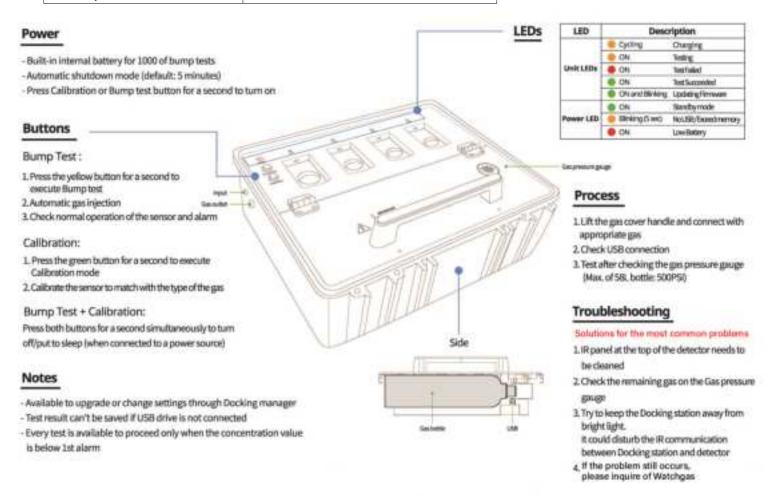
- Before operation, read the manual carefully and follow all the instructions.
- IR link only works when it is placed at the bay 1 on the docking station.
- The device only operates when the power LED turns green.
- Before upgrading firmware, connect the plug to avoid any data loss and malfunction by unexpected power off. And the file name is fixed as below.



#### 1. OVERVIEW

The WatchGas PDM Docking Station keeps monitor correctly configured and tested and fully functional without the actual presence of a certified service technician. Bump testing portable monitors is becoming more and more prevalent in the market. Ensuring sensors are responding to a known concentration of gas remains the best way to verify the monitor has not become impeded. WatchGas PDM docking station provides bump testing, event management and calibration from a simple to use multi-unit station and gives fleet or safety managers the ability to update configurations on large fleets. It also maintains the all important event logs that demonstrate users are working within company requirements.

Gas usage controlled	Lowers the cost of bump testing	
Manages calibration	Manages calibration and stores records of the event	
Flexible	Can monitor a wide array of test parameters and detector settings, providing excellent traceability	
All data is stored in a USB stick	Simple to transfer the data	
Rechargeable battery or power	Ideal for in-vehicle or multi-site use	
Holds up to 4 PDM's at once	Faster testing of larger fleets	





## 2. PDM Dock Configuration

#### **EASY TO MAINTAIN**

Changeable alarm levels	Ensures compliance with changing regulations or company procedure	
WatchGas PDM Docking Station	Keeps monitors correctly configured without service or technician team	
'Bump test due' indication	Alerts the user and team members that the monitor is not compliant	

#### **USER FRIENDLY**

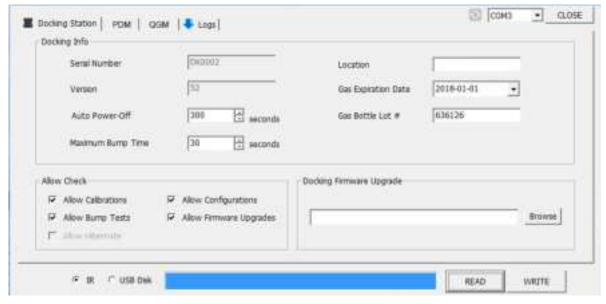
Compact and lightweight	Non-intrusive
Single button operation	Delivers simplicity for users
	Reduces training time

#### **EFFICIENT**

Wide operating temperature range	Effective in a wide variety of harsh environments: 41 to + 104°F ( 5 to + 40°C)
IP Rating	IP66 and IP67

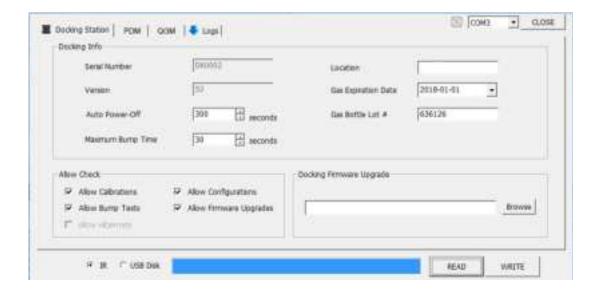
#### NOTE

Users can change settings, upgrade firmware and download log events through the Docking Station IR-Link\*\*



- · Docking PC Programs are as above image.
- To interact with Docking Station, ensure to instal the Docking Station software and have the IR Link cable\*\* plugged into the computer. Place the topside of the IR Link face down on the detector bay #1.
- \* IR-Link only operates on the bay #1 and power should be on.
- \*\* IR-Link is available seperately.





#### **DOCKING INFO**

Serial S/N: Factory Serial S/N		
Version: Docking station firmware version		
Auto Power-Off (Max 3600 seconds):	Auto Power-Off	
Maximum Bump Time:	Default: 30 / Min: 20 / Max: 120 seconds	
Location:	Configure a location of the docking station installed.	
Gas Expiration Date:	Set up the expiration date of a gas cylinder manually.	
Gas Bottle Lot #:	Set up a bottle serial number manually.	

#### **ALLOW CHECK**

Users can enable/disable the following options by checking each box. Calibration/Bump test/Hibernation/Configuration(Detector)/Firmware Upgrade

**Read:** Retrieve the stored settings **Write:** Update the adjusted settings





#### **OPTION (SET BY DOCK)**

User ID configuration

Calibration Interval (0~365 days): Set up an interval of the calibration alert Bump Station Interval (0~24 hours): Set up an interval of the self test.

#### Low/HIGH Alarms: (Default is as below)

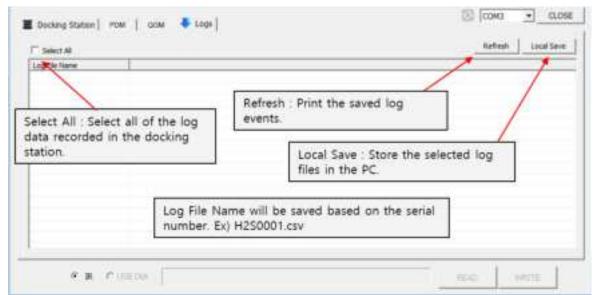
Alarms	02	H <sub>2</sub> S	СО
LOW	1%vol	5 ppm	25 ppm
HIGH	23% vol	5 ppm	25 ppm

Display: Choose either displaying "Sensor Reading" or "Sensor life remaining."

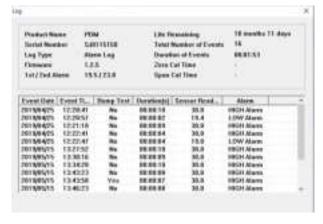
	02	H <sub>2</sub> S	СО
Gas	18%vol	10 ppm	50 ppm

Read: Retrieve the stored settings Write: Update the adjusted settings

#### 3. Log Configuration



#### EVENT LOGGER PDM (FOR THE LAST 30 ALARMS)







## 4. Specification

Size	47 x 41 x 22cm (18.50 x 16.14 x 8.66 in.)		
Weight (without gas cyl- inder)	8.2kg		
Operating Tem- perature	5 to + 40°C (41 to + 104°F)		
Warranty	Full 2 years		
Battery Type	Rechargeable Lithium Ion		
Battery Life	1,000 Bump Tests		
LEDS 5 red / green / orange LEDs (1 for each unit, 1 for power)			
Memory USB 8GB Standard			
Log Capacity	Approximately Up to 5 million tests (8GB, removable USB memory)		
Tests Performed	Bump Test and Calibration		
Information Stored	Bump/Cal Logs, Individual Monitor Event Logs, Firmware and Unit Configurations		
Gases Available*	CO, $H_2S$ , $O_2$ , $NH_3$ , $SO_2$ en $H_2$		
<b>Unit Compatibility</b>	Works with WatchGas PDM		
Calibration Gas	Compatible with 36cm cylinders		
<b>Charging Adaptor</b>	12V, 3A		

<sup>\*</sup> Los gases están disponibles por separado de WatchGas o su distribuidor.



#### 5. LIMITED WARRANTY

WatchGas warrants this product to be free of defects in workmanship and materialsunder normal use and service for two years from the date of purchase from the manufacturer or from the product's authorized reseller.

The manufacturer is not liable (under this warranty) if its testing and examination disclose that the alleged defect in the product does not exist or was caused by the purchaser's (or any third party's) misuse, neglect, or improper installation, testing, or calibrations. Any unauthorized attempt to repair or modify the product, or any other cause of damage beyond the range of the intended use, including damage by fire, lightening, water damage or other hazard, voids liability of the manufacturer.

In the event that a product should fail to perform up to manufacturer specifications during the applicable warranty period, please contact the product's authorized reseller or WatchGas service center at +31 (0)85 01 87 709 to repair/return information.

#### FOR MORE (ORDER) INFORMATION

www.watchgas.com | info@watchgas.com

Distributed by		
Distributed by		

©2024 WatchGas B.V.

WatchGas is dedicated to continuously improving its products. Therefore, the specifications and features mentioned in this datasheet are subject to change without prior notice.