MGT Docking Station

Version II

User's Manual







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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 deice only operates when the power LED turns grean.
- ✓ 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.
 - Docking F/W File Name: DK FW.bin,
 - PM400 F/W Name: PM400_FW.bin



1. Overview

Bump test and calibration are the key features to ensure the safety of devices and users. The MGT Docking Station version II. MGT docking station version II 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.

Key Features

- ✓ Zero and Span Calibration, Bump Test Function
- ✓ Indicate the current status of operation by the Power LED and Unit LED color
- Gas Ventilation system to remove a remained gas
- ✓ Save the log events after calibration and bump test
- ✓ Enable users to adjust the setting points of Docking station and MGT via IR Link or USB

Advantages

Gas usage controlled	Lowers the cost of bump testing	
Manages calibration	Manages calibration and stores the records of log events	
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 devices at once	Faster testing of larger fleets	



2. Specification

Size	52.5 x 43.7 x 21.3cm(20.66" x 17.20" x 8.40")
Weight (Without gas cylinder)	11.0kg
Operating Temperature	41 to +104°F (5 to +40°C)
Warranty	Full 2 years
Battery Type	Rechargeable Lithium Ion
Battery Life	1,000 Bump Tests
LEDs	6 Blue LEDs for each unit(unit x 4) , 3-color LED for power , Switch Back Light LED(Yellow, Green)
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	LEL, CO, H2S and O2
Unit Compatibility	Works with SP-MGT(N, P)
Calibration Gas	Compatible with 58L & 116L cylinders
Interface	Ethernet RJ-45(TCP/IP), 10Mb/s
Charging Adaptor	DC12.0V, 3A/h



3. Button Function

Button	Instruction	
Calibration or Bump Test	 To turn on, press either calibration or bump test button for 1 second. (Power Led: Orange -> Green 	
Calibration + Bump Test	To power off, press the calibration and bump test button for three seconds.	
Calibration	To activate the function, press the calibration button for three seconds.	
Bump Test	 To activate the function, press the bump test button for three seconds. 	

✓ Note

IR LINK only works when it is placed into the No.1 bay

The button only works when the power LED turns green



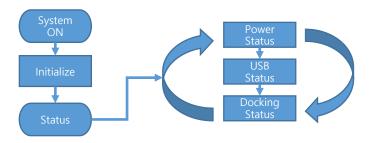
4. LED Color

Status	LED location	Status Color
IDLE (Ready to use)	Power LED Status	Green
	Unit LED Status	-
Recharging	Power LED Status	-
	Unit LED Status	Blue (Cycling)
No USB inserted Full USB Capacity	Power LED Status	Orange (Blinking for 5 sec)
	Unit LED Status	-
Low Battery Power	Power LED Status	Red
	Unit LED Status	-
Test Progress	Power LED Status	-
	Unit LED Status	Blue Cycling
Test Result	Power LED Status	-
	Unit LED Status	Success: All LED on Fail: Third unit LED will blink
FW Upgrading	Power LED Status	-
	Unit LED Status	No.6 Blue Color LED Blinking

- During the recharging period, the unit LED(Blue) will be cycling. The full charge takes about 4 hours and users can use the bump test for 1,000 times. During recharging, users can use the device.
- If USB is not connected and the USB memory is full, the power LED (orange)is blinking
- If the USB is not connected, users can still use the docking station, but log data will not be recorded.
- When the battery is drained, power LED(Red) will be on and the device is not working and it will enter the Idle status.
- During the upgrading firmware, unit 6 LED(Blue) will be turned on and flashing for 2 minutes.



5. Main Operation Procedure



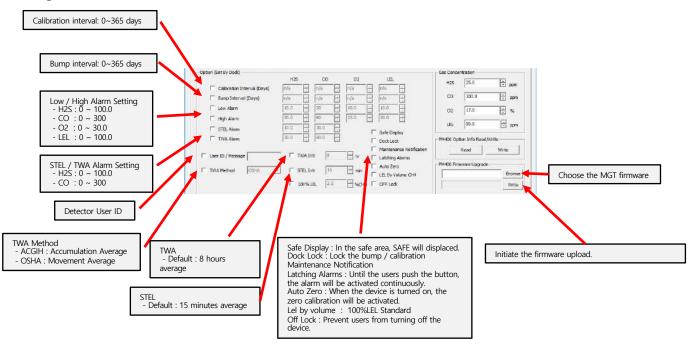
- Docking Station On
 When the device is on, the power LED will turn from orange to green.
- Calibration or Bump Test
 To initiate the calibration or bump test, press the button. And, the power LED will turn
 orange. The device will decide if the configuration will be loaded on the MGT based on if the
 configuration check box is marked or not.
- When the device enters the test procedure, the light will turn green and the unit LED will turn blue as the following procedures.
 - Unit 1 LED: Check if the device is connected
 - Unit 2 LED : Initiate Air Pump
 - Unit 3 LED: Initiate Bump or Calibration
 - Unit 4 LED : Initiate Air Pump
 - Unit 5 LED : Save Log events
- To cancel the test, press the button one time.
- When the test is completed successfully, the all unit LED will turn blue and when the unit fails, the third LED(blue) will flash.
- To communicate with PC, connect IR link with the no.1 Bay.



6. PC Program Configuration

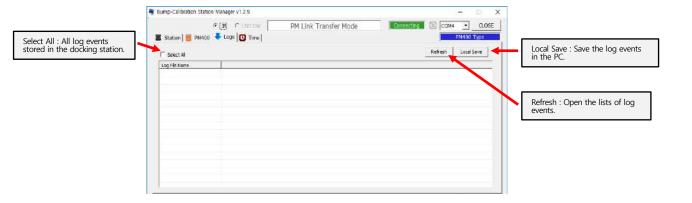


Configuration

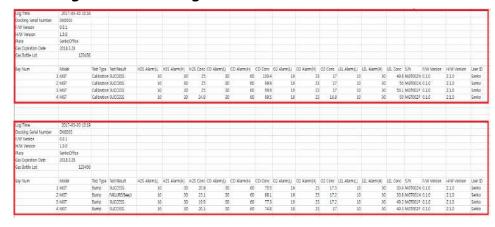




7. Log Events Download



Docking for PM400 Log Data



Docking for PM400 Log Format

Log Time: Total hours of log events
Docking Serial number: Docking S/N
F/W Version: Docking SW FW Version
H/W Version: Docking HW FW Version
Place: Docking Station Location
Gas Expiration Date: Expired Date
Gas Bottle Lot: Gas Cylinder Lot Info



Limited Warranty

SENKO warrants this product to be free of defects in workmanship and materials-under 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 SENKO service

center at 82-31-492-0445 to repair/return information.

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