## əping Quick Reference



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# xobillətn



Symbol Definitions

Signal Word	Description
ADANGER	Hazardous situation which, if not avoided, will result in death or serious injury. This symbol identifies the most extreme haz- ardous situations.
	Hazardous situation which, if not avoided, could result in death or serious injury.
	Hazardous situation which, if not avoided, may result in moderate or minor injury.
NOTICE	Situations which, if not avoided, may result in property damage.

This manual uses the following signal words, as defined by ANSI

#### Important Safety Information: Read First

- 1. To ensure personal safety, read Safety Information and Warnings before using the Intellidox.
- 2. Use the Intellidox only as specified by the manufacturer. Failure to do so may impair protection provided by the Intellidox.
- З. The safety and security of any system or network incorporating the Intellidox and its accessory components is the responsibility of the assembler of the system.
- 4. Follow all required National Electric Codes (NEC) and safety standards.

#### What's in the Box

Intellidox Docking Module Each Intellidox Docking Module package contains one Intellidox module with a factory-installed nest for the ConneX1 portable gas detector. The power adapter, power cord, calibration gas tubing, exhaust tubing, and user manual are packaged separately as the Intellidox Enabler Kit. One Enabler Kit is required

If the Intellidox module is damaged or if parts are missing, contact BW Technologies or an authorized distributor immediately.

#### Intellidox Enabler Kit

for each stand-alone Intellidox module.

One Intellidox Enabler Kit is required for each stand-alone Intellidox module. Each Enabler Kit contains:

- 1. Power supply and AC power cord appropriate to shipping destination
- 2. Ethernet cable:
- 3. Calibration gas and purge gas tubing, cut to 1 meter 3.3 feet);
- 4. Quick connect fittings;
- 5. Exhaust tubing, cut to 4.57 meters (15 feet);

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- 6. Inlet (purge) filter assembly;
- 7. Intellidox end plate;
- 8. CD containing the Intellidox Operator's Manual in PDF format: and
- CD containing FleetManager II version 3.0.0 software or 9. higher.

If Enabler Kit parts are damaged or missing, or if additional Enabler Kits are required, contact BW Technologies or an authorized distributor immediately.

INTELLIDOX DOCKING MODULE QUICK REFERENCE GUIDE

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Unless otherwise specified at time of purchase, Intellidox mod-

ing module only. Do not connect two or more Intellidox modules

This Intellidox model is intended for use as a stand-alone dock-

modules can also be mounted on a wall or other flat surface. For

upright at an angle that is suitable for routine use. Intellidox

built-in retractable stand can be deployed to hold the Intellidox The Intellidox can be used on a tabletop or other flat surface. A

record of detector data logs that are transferred to its onboard tions, alarm tests and data transfers. It also retains a cumulative

procedures including sensor identification, bump tests, calibra-

use with ConneX1 portable gas detectors manufactured by BW

The Intellidox Docking Module ('Intellidox' or 'Intellidox module')

configuration, operation and maintenance, refer to the Intellidox

tion devices and accessories, and take appropriate action in the

Ensure that you are familiar with the use of personal gas detec-

This publication is a quick-start reference guide to assembling

the Intellidox Docking Module, and preparing it for first use.

For additional information regarding Intellidox installation,

Technologies. The Intellidox automatically performs essential

is an automatic bump test and calibration docking station for

About the Intellidox Docking Module

event of an alarm condition.

About this Publication

Operator Manual or visit <u>www.gasmonitors.com</u>.

additional information, refer to the Operator Manual.

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Intellidox, ConneX1, and FleetManager II are trademarks of BW Technologies. Other brand or product names are trademarks of their respective owners.

Connect the Purge Inlet Filter Assembly Each Intellidox Enabler Kit contains one purge inlet filter assembly. Unless otherwise specified, the purge inlet is configured to use ambient air in a fresh air environment with a normal atmosphere of 20.9% O, that is free of hazardous gas Ensure that the purge inlet filter assembly is attached before using the Intellidox module. You may attach an extension tubing to the filter assembly to draw ambient air from an adjacent fresh air environment.

- Unhook and lift latch arm. 1.
- 2. Attach end plate.
- 3. Lower and lock latch arm.

Each Intellidox Enabler Kit contains one endplate. To prevent gas leaks, the end plate must be attached and locked with the lock latch arm before connecting power supply or connecting gas cylinders. The end plate must remain securely latched at all times during operation. If the end plate is detached during operation, disconnect power and replace the end plate immediately.

#### Attach the Endplate

tion, you must attach the endplate, attach the purge inlet filter assembly, and connect the exhaust tubing before you connect power or attach a gas cylinder.

Prepare for First Use To ensure that the Intellidox module is ready for safe opera-

- .sgnittes set Are factory configured for use with ConneX1 portable gas detectors containing H2S sensors with standard calibration
- Operate as stand-alone bump test and calibration stations. Contain a multi-gas expansion module.
- maintenance tasks. enhanced access to and control of administrative and • May be connected to a network via Ethernet cable for
- or higher. Are compatible with FleetManager II version 3.0.0 software

immeaiateiy. missing, contact BW Technologies or an authorized distributor If the Intellidox module or any of its parts are damaged or

#### Normal Operating Conditions

:SUOI The Intellidox is designed to be safe under the following condi-

Indoor use only

seb

- Normal atmosphere (20.9% O<sub>2</sub>) that is free of hazardous
- Temperature range of +10°C to +35°C
- Relative humidity of 0% to 50%

səindom professional specialist prior to installing and using any Intellidox teria, BW Technologies recommends that you consult a qualified It the intended operating environment does not match these cri-

well-ventilated area. Intellidox must be attached to a venting system or be used in a This equipment uses potentially harmful gas for calibrations. The



#### Touchpad and buttons

Button	Action
4	Move right
4	Move left
4	Move up
4	Move down
V	Select menu item Save changes
x	Close menu item Return to previous screen Cancel changes

# LCD Backlight

Backlight Color	Status
Gray	Idle
Blue	Prompt for user action
Yellow	Activity in progress
Green	Activity successful
Red	Warning Activity Failed

- Ensure that the filter assembly is free of obstructions and defects.
- 2. Connect the filter assembly to the purge inlet.
- З. If necessary, attach an extension tubing to the filter assembly to draw ambient air from an adjacent fresh air environment

Connect the Exhaust Tubing Each Intellidox Enabler Kit includes one exhaust tubing that is 4.57 meters (15 feet) long.

- 1. Inspect the exhaust tubing to ensure that it is free of obstructions and defects.
- 2. Connect the exhaust tubing to the exhaust outlet.
- Ensure that the exhaust tubing is not 3. connected to a negative pressure system, or obstructed in any way.

#### Connect the Power

Each Intellidox Enabler Kit contains one power supply and AC power cord. Use only the power supply provided in the Enabler Kit to connect the Intellidox Docking Module to an appropriate electrical power outlet. When the power is connected, the Intellidox activates and a self-test is performed.

- 1. Connect the AC power cord to the power supply
- Connect the power supply to the 2. Intellidox power port.
- 3. Plug the AC power cord into a suitable wall outlet.
- 4. When the power is connected, the Intellidox LCD activates and a self-test is performed.

# NOTICE

To prevent the corruption or loss of data and/or software and/or firmware, do not deactivate the equipment while performing datalog transfers, bump tests, calibrations or other operations.

#### Charge a Detector

Use the Intellidox to charge detectors fitted with rechargeable batteries. For more information on battery maintenance, refer to the detector manual.

- Charge only in a normal environment that is  $20.9\% O_2$  and free of hazardous 1. gas. Do not opérate the docking module in a hazardous area. Failure to adhere to this guideline can result in possible personal injury and/or property damage.
- 2. Deactivate the detector.
- 3. Insert the detector into the Intellidox module.
- Battery charging begins immediately. 4 Battery charging is disabled during bump test and calibration procedures.

Once tests and other routines are completed, you may leave the detector in the module for charging. If the detector is activated, the module will deactivate it after 10 minutes of inactivity. When charging is complete, remove the detector. Do not store the detector in the module.

#### Prepare for Bump Tests and Calibrations

The Intellidox module is factory-configured for use with ConneX1 portable gas detectors containing H<sub>a</sub>S sensors. Gas inlets are configured at the factory. Inlet configurations cannot be altered. The Intellidox Enabler Kit includes quick connect fittings and calibration tubing cut to the minimum recommended length of 1 meter (39 inches). Use only tubing that is between 1 meter (39 inches) and 10 meters (33 feet) in length when you connect gas cylinders to an Intellidox module.

#### **Connect Calibration Gas**

- 1. Connect a demand flow regulator to the calibration gas cylinder.
- 2. Use the guick connect fittings and calibration gas tubing to connect the calibration gas cylinder to the gas.

#### Bump Test

Bump test is a procedure that confirms a detector's ability to respond to target gases by exposing the detector to gas concentrations that exceed its alarm setpoints.

If AutoBump on Insertion is set using FleetManager II software, then bump test starts automatically when Intellidox recognizes the detector. If AutoCal on Overdue Sensors is enabled and if a calibration is also due, then no bump test is performed. Instead, calibration starts automatically when the detector is recognized.

- 1. Insert a detector.
- 2. Press  $\triangleleft$  and  $\triangleleft$  on the keypad to move to Bump test my detector on the Intellidox user menu.
- Press 🖌 to select Bump Test. The З. LCD screen background changes to yellow and the bump test progress screen is displayed.



1. The bump test begins. Test sequence progress screens are displayed while the tests are performed.

2. If AutoDownload Datalog is set using FleetManager II software, detector to Intellidox.

#### Bump Test Pass When the bump test is successful, LCD screen background changes to green and Bump test passed message is displayed. Alarm response and sensor response test items are checked.



Press V to return to Intellidox user menu.

#### Bump Test Fail

When the bump test fails, LCD screen background changes to red and Bump test failed message is displayed. Failed alarm response and/or sensor response test items are marked with X.

	11:08 4 07 / 07 /
Bump test	failed
Acoustic	х со

If the AutoCal on Failed Bump is set using Fleet-Manager II software, calibration automatically begins.

#### Calibration

Calibration is a two-step procedure that determines the measurement scale for the detector's response to gas. In the first step, a baseline reading is taken in a clean, uncontaminated environment. In the second step, the sensors are exposed to known concentrations of gas. The detector uses the baseline and known gas concentrations to determine the measurement scale.

#### **Calibration Guidelines**

- 1. Calibrate only in a normal environment that is 20.9% O, and free of hazardous gas. Do not operate the docking module in a hazardous area. Failure to adhere to this guideline can result in possible personal injury and/or property damage.
- 2. Use only premium grade calibration gases and cylinders that are approved by BW Technologies, and supplied by BW Technologies or an authorized distributor. The calibration gases must meet the accuracy of the detector. For more information, refer to the Operator Manual.
- 3. Do not use a gas cylinder beyond its expiration date.
- All calibration cylinders must be used 4. with a demand flow regulator and must meet these maximum inlet pressure

datalogs are automatically transferred



specifications: disposable cylinders: 000 psig/70 bar, refillable cylinders: 03000 psig/207 bar

- Do not calibrate the detector during 5. charging or immediately after charging iscomplete.
- Calibrate the sensor if ambient gas 6 readings vary during startup.
- Calibrate a new sensor before use. Allow 7 the sensor to stabilize before starting calibration.
- 8. Used sensor: wait 60 seconds
- New sensor: wait 5 minutes 9.
- 10. When calibrating the same gas detector multiple times, wait 10 minutes between calibrations to allow the sensor to stabilize.
- 11. If a certified calibration is required. contact BW Technologies or an authorized distributor.

#### Calibrate a Detector

If AutoCal on Overdue Sensors is set using FleetManager II software and sensors are overdue, then calibration starts automatically once Intellidox recognizes the detector.



- 1. Insert a detector.
- Use **I** and **I** to move to Calibrate my detector on the Intellidox user menu.
- Press V to select Calibrate my detector. 3. The LCD screen background changes to yellow and the calibration progress screen is displayed.
- Calibration begins. Progress screens are displayed while the tests are performed.
- If AutoDownload Datalog is set using 5. FleetManager II software, detector datalogs are automatically transferred to Intellidox.

#### **Calibration Pass**

When the calibration is successful, LCD screen background changes to green and Calibration passed is displayed. Alarm response and sensor response test items are checked. Press V to return to Intellidox user menu.

	<b>11:08 &lt;&gt;</b> 07 / 07 / 201:
Calibratio	n passed
	-
Alarm response:	Sensor response:
Alarm response: Acoustic	Sensor response:
Alarm response: Acoustic Visual	Sensor response: V CO

#### **Calibration Fail**

When the calibration fails, LCD screen background changes to red and Calibration failed is displayed. Failed alarm response and/or sensor response test items are marked with X.