

# IBRID MX6 MultiGas Meter



# IBRID MX6

## Overview

Used for simultaneous detection of;

O<sub>2</sub> (Oxygen)

PID (Solvents)

H<sub>2</sub>S (Hydrogen Sulfide)

CO (Carbon Monoxide)

LEL (Flammable Content)

can be used as a diffusion type monitor for general purpose air monitoring



Or with an attached motorized pump for air monitoring trenches, tanks, pits, etc.



# IBRID MX6 Parts



## Visible/vibration alarm

Red pulsating LED light with long delay when above low alarm level  
Red pulsating Led light with short delay when above high alarm level

## Sensors

## LCD Screen

Continuous readings of gas and O2 concentrations.  
Gas concentrations turn red when over alarm levels

## Navigation wheel

On/off and menu movement

## Audible alarm

Low frequency with long delay when above low alarm level  
High frequency with short delay when above high alarm level

# IBRID MX6

## The Motorized Pump

Pump is designed for use when sampling air from low/confined areas

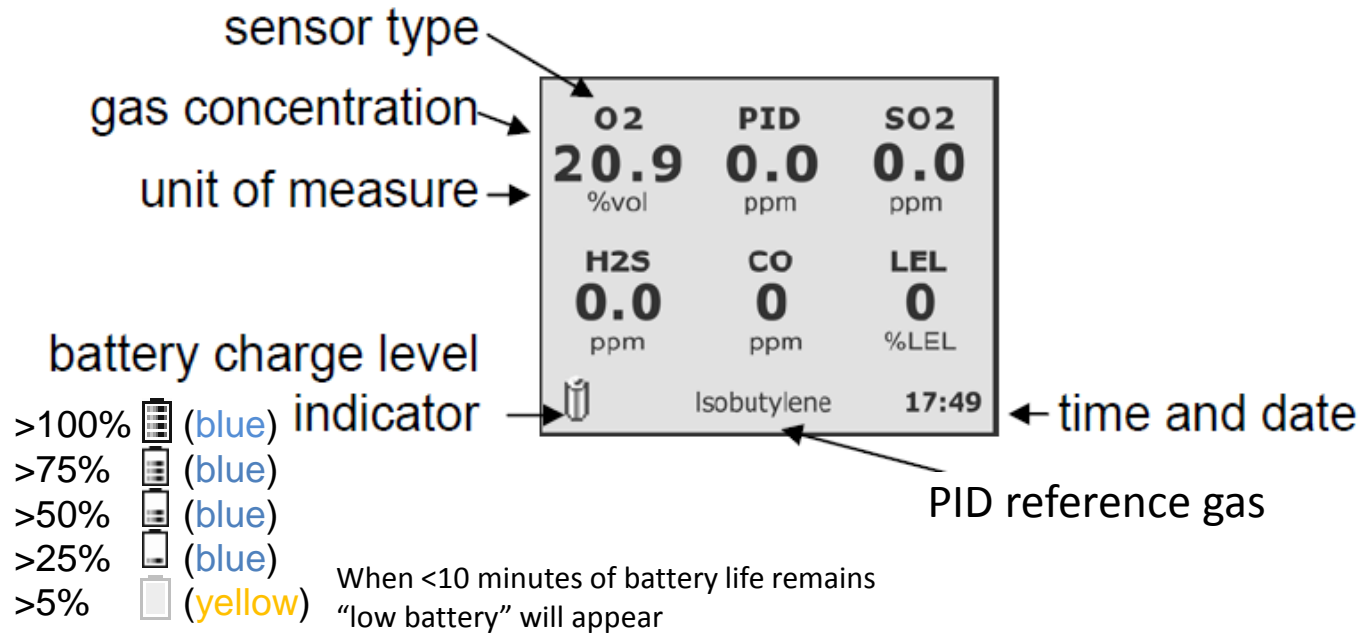
Must follow the “2 & 2 sampling rule”

when using the pump with attached tubing  
(sample for a minimum of 2 minutes plus 2 seconds per foot of tubing before recording readings)

Can be used for general purpose air sampling outside of low/confined areas but does **not** provide faster detection and shortens battery life (12 hrs vs. 24 hrs)



# IBRID MX6 Parts LCD Screen



*Sensor types* are displayed as solid black text during normal operation, and blinking black text during alarm conditions.

The *gas concentrations* are displayed as solid black numerals during normal operation, and solid red numerals during alarm conditions.

If the alarm is a STEL or TWA, the word "STEL" or "TWA" is shown to indicate the corresponding alarm.

# Using The IBRID MX6 On/Off



**ON:** Hold center "Power Button" for 3 seconds

**OFF:** Hold center "Power Button" for 2 seconds and wait for shut down confirmation screen  
Press again to confirm shutdown

**Note:** To cancel shutdown press right arrow then center "Power Button" to confirm

# Using the IBRID MX6

## Zeroing the Sensors

Sensors should always be zeroed in clean air before each use to ensure true measurements

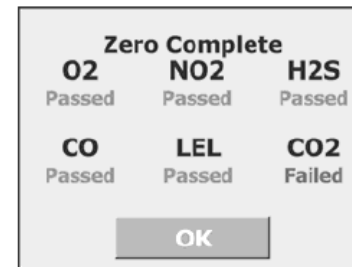
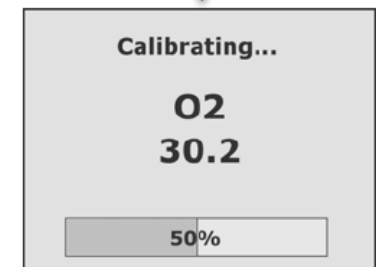
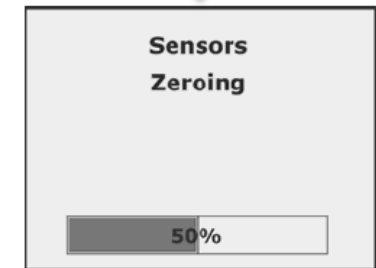
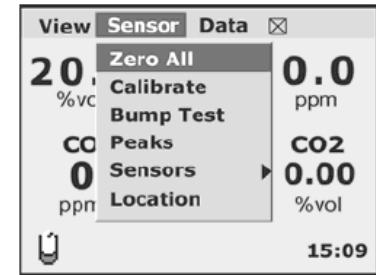
### To Zero:

Once instrument is on, push center “Power Button” until “View Sensor Data” appears at top of screen

Push right arrow to highlight “Sensor” then center “Power Button” to highlight “Zero All” then push center “Power Button” again to confirm zero all sensors. Press again for “OK”

Once zero is complete press “OK” to confirm then press “Cancel” if asked “calibrate all sensors,” or do nothing and instrument will return to monitoring screen

If a sensor fails “zero” try zeroing sensor again.  
If sensor fails again notify OSPR health and safety



# Using the IBRID MX6

## Bump Test and Calibration

Manufacturer recommends:

**Bump test:** As needed/before each use

**Calibration:** Monthly (sensors appear in red at bottom of screen with “cal due” when calibration is needed)

Calibration gas used for bump test and calibration of the PID sensor consists of:

**Isobutylene 100 ppm** <sup>1,2</sup>

Calibration gas used for bump test and calibration of CO, H<sub>2</sub>S, O<sub>2</sub>, and LEL sensors consists of a mixture containing: <sup>1,2</sup>

**Carbon Monoxide 100 ppm**

**Pentane 25% LEL**

**Hydrogen sulfide 25 ppm**

**Oxygen 19% Vol**

Instrument can be manually bump tested and calibrated or placed in the DS-2 docking station for automatic bump test and calibration

<sup>1</sup> Always ensure calibration gas is not expired before use

<sup>2</sup> Always ensure calibration gas used only contains this mixture and/or concentration



# Using the IBRID MX6

## Bump Test

### To manually bump test

Attach calibration cap, tubing, and cal gas to MX6

Press center "Power Button" until "View Sensor Data" appears

At top of screen

Scroll to sensor press "Power Button" and scroll down to "Bump Test"

press center "Power Button"

Press center "Power Button" again to confirm bump test

**Important:** when asked "Apply 19% oxygen"

press cancel

When asked, apply Isobutylene calibration gas until bump test

Is completed

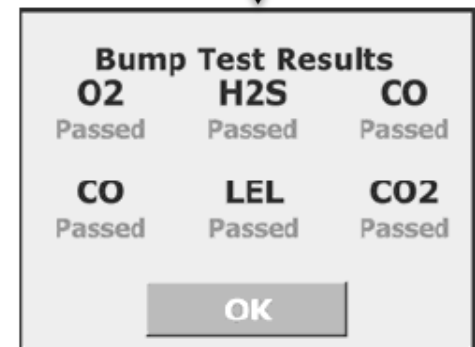
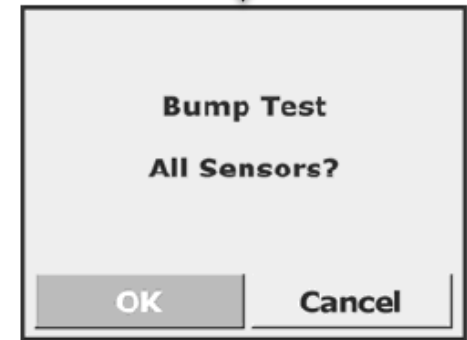
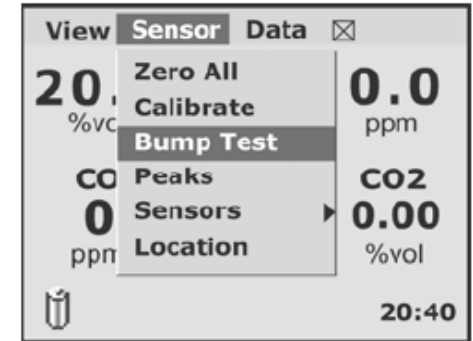
When asked, apply mixed calibration gas until all bump tests

are completed

Press center "Power Button" to confirm bump tests

**Note:** Have cal gas ready when instrument says "Apply Gas"

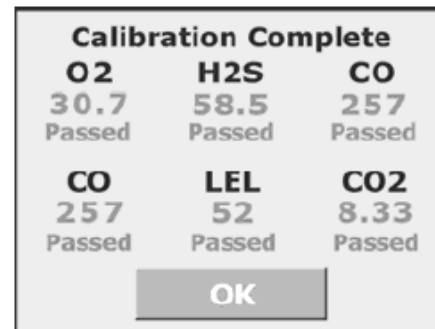
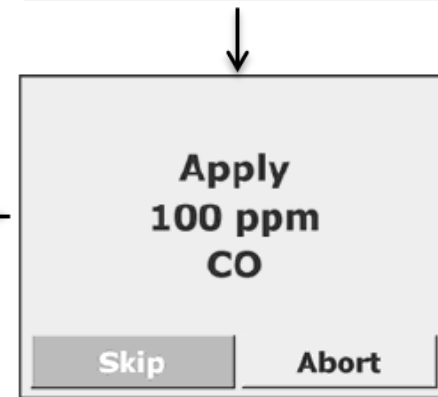
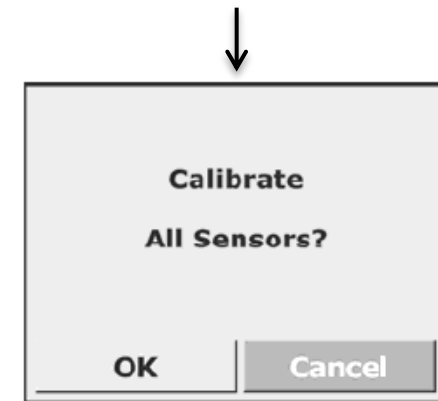
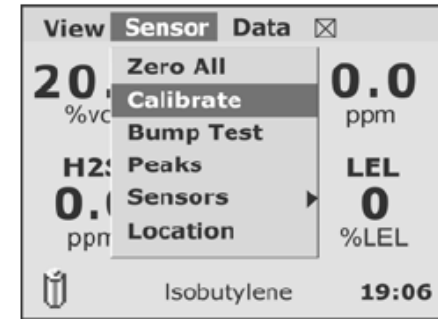
If applying gas is delayed, instrument will skip sensors



# Using the IBRID MX6 Calibration

## To manually calibrate:

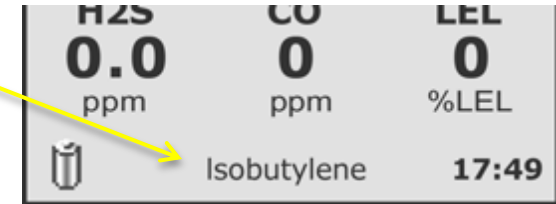
- Place calibration cap, tubing, and cal gas to MX6
- Press center "Power Button" until "View Sensor Data" appears at top of screen
- Scroll to sensor and scroll down to "Calibrate"
- press center "Power Button"
- Press center "Power Button" again to confirm "Calibrate all Sensors"
- Sensors will "Zero" first
- Press center "Power Button" to confirm zeroed sensors
- When asked, apply Isobutylene calibration gas until PID sensor is finished calibrating
- When asked, apply mixed calibration gas until all sensors are finished calibrating
- Press center "Power Button" to confirm calibration complete



# Using the IBRID MX6

## Making the PID more Specific

The PID sensor registers gas concentrations in relation to “Isobutylene,” the calibration gas used. This is listed on the bottom of the LCD screen



The MX6 has an internal library of chemicals for the PID sensor which will make the PID gas measurement true for a specific chemical in a single gas environment

### **To make the PID sensor more specific for a single chemical:**

Press the center “Power Button” until “View Sensor Data” appears at the top of the screen

Press the “Right Arrow” to highlight sensor, press center “Power Button”

Scroll down to Sensors, press center “Power Button” and scroll down to PID

Press “Power Button” and scroll down to “Response Factor”

If your chemical is on the list, select that chemical

Press “Right Arrow” to highlight “OK” and press center “Power Button” to select

Press center “Power Button” to confirm response factor

**NOTE:** Single chemical concentrations cannot be determined when a mixture of chemicals are present

Specific chemicals for the PID include; Benzene, Diesel, Ethanol, Ethyl Benzene, Hexane, Hydrogen Sulfide, Jet-A, JP-5, JP-8, Methyl Mercaptan, Toluene, Xylene(s)

Always make sure the PID sensor chemical is put back to Isobutylene before calibrating