



Environmental  
Instruments  
Canada Inc.

## ES008-M/ES008-MXS Micromanometer

Fast and Accurate Pressure Measurement

### Features

- Small, lightweight design
- (ES008-M)DLH-L10D or (ES008-MXS)DLHR-L10D digital pressure sensor
- Display one second average live with the average of eight readings per 250 milliseconds
- +/-2500 pascal (+/-10 inh2o) pressure range with resolution of 0.1 pascal (0.0001 inh2o)
- Temperature compensated
- Dual port differential pressure measurement
- Simple single-button local operation
- Rich user interface and sophisticate customized settings provided by smartphone app
- Graphing and archive available on *GammaGuard* App
- Connects to *GammaGuard* App via Bluetooth Low Energy (BLE)
- Two AA batteries supply

### Introduction

The ES008-M/ES008-MXS is intended for pressure measurement with non-corrosive, non-ionic working fluids, such as air or dry gas. It features fast and sensitive measurement readings and easy operation. The manometer performs an average of 8 readings measurement every 250 milliseconds. Every second it updates OLED display with the average of one second cycle in the “LIVE” screen. At the “AVG” screen, it averages readings for 10 seconds period by default. The manometer has only one button control interface to toggle screens, to zero initial readings and to turn on or off device.

ES008-MXS and ES008-M are both very sensitive to pressure change with a resolution of 0.1 Pa (0.0001 inH2O). ES008-MXS stands for extra stable in terms of higher stability than ES008-M in the change of certain conditions, for example, gravity, orientation and temperature.

Rich and sophisticate user interface and setting can be performed by connecting to “*GammaGuard*” App. The manometer can be wirelessly linked to your smartphone with the readings displayed on the phone's screen. This allows you to take readings in locations that are not in line of sight. The Smartphone provides a large display with access to a feature-rich menu. Live graphing can be enabled on the app.



### Specifications

**Indicated Use:** Differential Pressure Measurement

**Sensor:** DLH-L10D or DLHR-L10D

**Measurement Units:** Pascal or inH2O

**Operating Range:** - 2500 Pascal to 2500 Pascal (or -10 inH2O to 10 inH2O)

**Maximum Range:** 300 inH2O

**Measurement Resolution:** 0.1 Pascal/0.0001 inH2O

**Temperature Range:** 0 to 70 degree Celsius

**Measurement Cycle:** an average of 8 readings every 1/4 second

**Display Reading:** “LIVE” screen – average of 1 second; “AVG” screen – an average of 10 seconds

**Average Time Range:** 1 to 60 minutes

**Display:** 2.2 x 1.2 cm OLED

**Local Controls:** Single push button.

**Wireless Communication:** BLE connection to GammaGuard

**Wireless Distance:** Around 100 meter in open space

**Voltage Range:** 0.7 to 5.5V

**Batteries:** 2 standard AA batteries

**Operation Current Draw:** 7 to 15 mA with OLED; 0.03mA in Sleep Mode

**Operating Time:** 200 hours with screen on

**Size:** 10.5 x 5 x 2.5 cm (4 x 2 x 1 inch)

**Weight:** 120g (including batteries)

# The GammaGuard App

The ES008 micromanometers, like many of our other radiation measurement instruments, connects to our GammaGuard system. ES008-M and ES008-MXS connect to *GammaGuard* App.

## The *GammaGuard* App:

- Provides a real-time, large, easy to read display.
- Can enable graphing feature to plot a live reading graph.
- Has feature-rich menu and settings available.
- Can log and save data in files.
- Will run in the background while performing other tasks.
- Can connect to several manometers at the same time to monitor different manometers at one terminal.



For more information  
see <http://www.radonsniffer.com> or contact:  
Environmental Instruments Canada Inc.  
admin@eic.nu  
+1(306)974-6055