

EICM Micromanometer

Fast and Accurate Pressure Measurement



Environmental
Instruments
Canada Inc.

Features

- Small, lightweight design
- Displays one second live data or 10 second average
- +/-2500 pascal (+/-10 inH2O) pressure range with resolution of 0.1 pascal (0.0001 inH2O)
- Dual port differential pressure measurement
- Simple single-button local operation
- Rich user interface and 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 EICM 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. Every second it updates the display with the average of one second on the “LIVE” screen. On the “AVG” screen, it averages readings for a 10 second period by default. The EICM has a one button control interface to toggle screens, to zero initial readings and to turn on or off device.

EICM is very sensitive to pressure change, with a resolution of 0.1 Pa (0.0001 inH2O).

Sophisticated-use interface and settings performed by connecting to “*GammaGuard*” App. The micromanometer 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

Measurement Units: Pascal or inH2O

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

Measurement Resolution: 0.1 Pascal/0.0001 inH2O

Temperature Range: 0 to 70 degree Celsius

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 meters in open space

Batteries: 2 standard AA batteries

Operating Time: 200 hours with screen on

Size: 11 × 6 × 3.5 cm (4.3 × 2.4 × 1.4 inch)

Weight: 120g (including batteries)



The GammaGuard App

The EICM micromanometer connects to the *GammaGuard* smartphone 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.

