The meriGauge® *plus* System Quick Start Guide

First things first

General purpose use only

⚠ DANGER MGP7000 meriGauge® *plus*
MS700 meriSense™

These are not intended for hazardous locations.

Disclaimer

NOTICE Place only meriSense sensors inside the meriGauge *plus* housing.
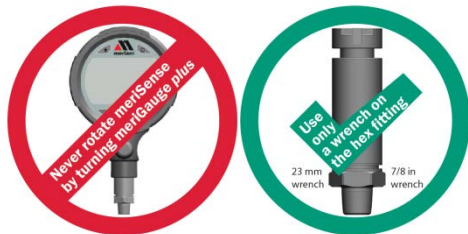
Steps to get started

Make pressure connection

The meriSense has a 316 stainless steel 1/4 in. male NPT connection for direct mounting.

- The threads should be coated with a pipe sealant compound before installation.
- Tighten to finger tight plus 1.5 turns to 3 turns using a 23 mm (7/8 in.) wrench.
  Remember: The gauge will face the same direction as the Meriam logo on the sensor.

NOTICE Never rotate meriSense by turning meriGauge *plus*.

Use only a **wrench** on the hex fitting.

Know your batteries

The meriGauge *plus* is powered by four 1.5 volt AA size batteries.

- **Never** mix batteries—not by manufacturer or by size, by capacity, or by chemistry.
- **Never** mix old and new batteries.
- **Remove all four** batteries in the meriGauge *plus* at the same time.
- **Replace all four** batteries with batteries from the same package or with the same expiration date.
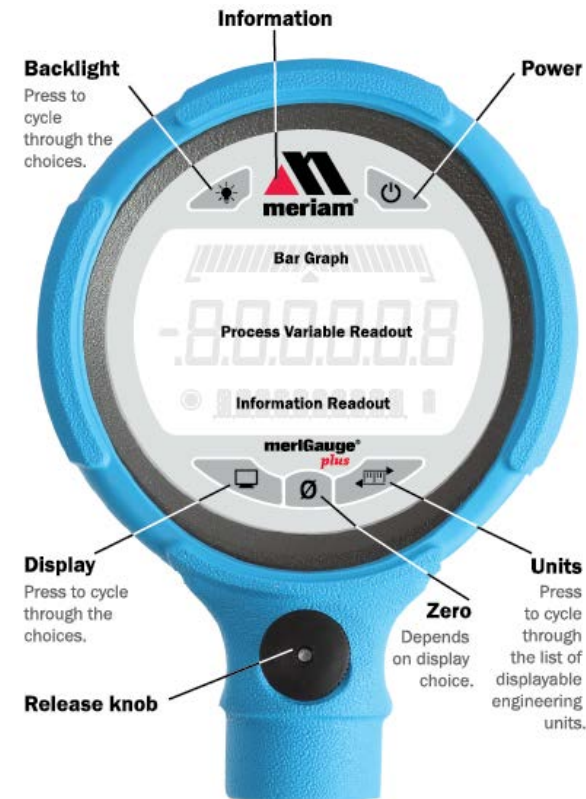
Install the batteries

1. Turn over the meriGauge *plus* so the display faces down.
2. Remove the four screws on the battery cover with the Phillips head screwdriver by turning them counterclockwise.
3. Insert four AA batteries.
   Note: Pay attention to the **positive (+)** and **negative (−)** battery polarity markings at the bottom of the compartment.
4. Replace the battery cover. To secure the cover, torque the screws clockwise 0.56 N-m (5 in-lbs) maximum.

Connect meriGauge plus to meriSense

The notch on the sensor must face the same direction as the meriGauge *plus* for the sensor to lock in place. Simply slide the gauge housing on the sensor until it fully connects.

Learn the function keys

USB cable & meriSuite™ CG

For use only in non-hazardous locations

⚠ WARNING

Connect the USB cable to meriGauge *plus* and to your computer to configure meriGauge *plus* and meriSense using the *meriSuite* CG app.

Install meriSuite CG & USB Drivers

You must install USB Drivers first then install the meriSuite CG app. For installation instructions: https://www.meriam.com/resources/download/

Open meriSuite CG

Use *meriSuite* CG app to:

- **Sync PC Time to Gauge** for data logging and display.
- Select or deselect the **Display Modes** on each gauge or **Measurement Units** that you need on each sensor.
- Select the timeout for the **Backlight** and for the **Auto Off**.

Watch meriSuite CG & batteries

NOTICE Do not turn off the power on the meriGauge *plus* while it is communicating with *meriSuite* CG.

Close *meriSuite CG* first, disconnect the USB, and turn off the meriGauge *plus*.

FAQs

How often is a new pressure measurement displayed?

The meriGauge *plus* display updates with a new pressure measurement five times per second.

What are the different Display modes on the gauge?

The meriGauge *plus* has nine display modes:

1. Normal
2. Minimum (**MIN**)
3. Maximum (**MAX**)
4. Accuracy (**+/−**)
5. Tare (**T.OFF**, **T.ON**)
6. Average (**AVG**)
7. Rate of change (**RATE**)
8. Data Log Lite (**DATA LOG**)
9. Time & Temperature

Why are the available units different between a 15 psi and 3 000 psi meriSense?

If a given measurement unit cannot display the correct number of digits, the meriGauge *plus* automatically advances to the next displayable unit.

What does it mean when the red backlight flashes?

- The flashing red backlight indicates an error condition.
- Possible error conditions are:
  - Pressure has exceeded the stated accuracy of the meriSense.
  - Pressure has fallen below the stated accuracy of the meriSense.
- The red backlight overrides the white backlight.

FAQs

What does the Zero (Ø) key do?

In normal measure mode

If the sensor is within a tolerance band around zero, press and hold the **Zero** key to zero the pressure measurement and to reset the Min and Max measurements.

Note: The tolerance band is approximately ± 1 % of the Full Scale pressure value of the sensor.

In Min or Max mode

Press and hold the **Zero** key to reset the Min and Max measurement. However, this does not zero the pressure measurement.

In Tare mode

When the Tare is off (T.OFF), press and hold the **Zero** key to turn on Tare (T.ON) and to set the Tare value at the current pressure measurement.

Likewise, when the Tare is on (T.ON), press and hold the **Zero** key to turn off the Tare mode.

In Average mode

Press and hold the **Zero** key to restart the rolling average.

Holding the Zero key

The key must be held to perform the **Zero** or **Tare** mode. The displayed value(s) dashes out during the zero or tare process.

Which version of Data Log is on my gauge?

1. Make sure the sensor is installed.
2. Turn on the gauge.
3. Press the **Display** button until "DATA LOG" appears.
4. Press the **Information** ▲ button. The version appears: *Vers. Pro* or *Vers. Lite*.

FAQs

How long does the white backlight stay on after the Backlight key is pressed?

The white backlight has an automatic timeout. If no keys have been pressed, the backlight automatically turns off after *1 minute*.

Note: You can configure the backlight timeout with *meriSuite CG*.

What does the bar graph at the top of the display indicate?

- The bar graph displays a live indication of the current pressure applied to the sensor as a % of Full Scale.
- However, when the battery percentage is displayed, the bar graph follows the large digit display in indicating the remaining state of charge for the batteries.

Is it OK to leave the sensor attached to a pipe without a gauge connected?

- Yes.
- Make sure to replace the dust cap on the sensor to protect the electrical contacts after the sensor has been detached from a meriGauge *plus* gauge.

What does low battery indicator mean?

Be prepared to change batteries when you see the outline of the battery icon or when the outline of the icon flashes.

FAQs

How long will the gauge remain on if I leave it unattended?

- The default setting is *Always On*.
- You can configure the timeout for Auto Off with *meriSuite CG*.

How to contact us

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If you have any issues, questions, or suggestions, please contact us using one of the following methods.

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