

Title: CALDON USM Measurement Advisor electronics compatibility

Ref: Rev 1

Date: March 26, 2021

The CALDON USM Measurement Advisor condition-based monitoring and configuration software can be downloaded free of charge from our [website](#).

To confirm the applicability of your electronics with the CALDON Measurement Advisor software, refer to the delivery dates in Table 1.

Delivery date	Electronics	Required update	See item
Before October 2015	G2	G3 electronics	A
October 2015 – August 2016	G3 first release	Firmware	B
September 2016 – February 2018	G3 firmware update	Software	C
After March 2018	G3 software update	None	D

Table 1: Electronics version by delivery date

The last column Table 1 refers to the sections below. The dates within Table 1 are indicative. The exact configuration of your ultrasonic flowmeter can be traced based on its serial number. For this, contact our field service team at (ms-services@sensiaglobal.com).

A: Delivery date is before October 2015: Upgrade to G3 electronics needed

If your CALDON LEFM ultrasonic flowmeter was delivered before October 2015, then your system has G2 electronics (or older). You will need to upgrade the electronics to G3 to use the CALDON USM Measurement Advisor software.

A Sensia field service engineer should perform this upgrade.

With completion of the upgrade

- Your CALDON LEFM ultrasonic flowmeter is upgraded to the latest electronics, thus making the flowmeter essentially a new meter.
- You can use the CALDON USM Measurement Advisor software and start saving cost and improving your operational efficiency immediately.
- Your installation has been reviewed and audited by our experienced field service engineer.
- A short training/introduction can be given on the CALDON USM Measurement Advisor software.

Upgrading the electronics will not influence the functionality and uncertainty of the meter. Sensia can supply data to fully support this statement; however, pending on regional legislation and/or your specific requirements recalibration might be necessary.

For further technical details and exact pricing for your situation contact ms-services@sensiaglobal.com.

B: Delivery date between October 2015 and August 2016: Firmware upgrade needed

Since the first release of the G3 electronics in October 2015, software and firmware have been improved, and upgrades have been available. If your CALDON LEFM ultrasonic flowmeter was delivered between October 2015 and August 2016 (dates are indicative), you will need to upgrade the firmware and software to our present G3 electronics.

We advise that the firmware upgrade be done by a Sensia field service engineer. Although the firmware could be upgraded by your service engineer, the engineer must be fully trained in both hardware and software for the CALDON LEFM ultrasonic flowmeter.

This firmware upgrade is covered by our metrology certifications, and recalibration is not needed.

For further support and training regarding a firmware upgrade, please contact our field services group by e-mail: ms-services@sensiaglobal.com.

C: Delivery date between September 2016 and February 2018: Software upgrade needed

If your CALDON LEFM ultrasonic flowmeter was delivered between September 2016 and February 2018 (indicative dates), you only need a software upgrade for the existing G3 electronics.

This software upgrade can be done by a service engineer in your organization with basic knowledge of the CALDON LEFM ultrasonic flowmeter. The engineer should be capable of contacting the flowmeter, using the present CALDON LEFM SystemLink user interface software, and uploading the software to the ultrasonic flowmeter. The procedure is available via our field service group.

If needed, this upgrade can be done by our field service engineer in combination with training on the CALDON Measurement Advisor software.

This software upgrade is fully covered by our metrology certifications, and recalibration is not needed.

For further support and training regarding a software upgrade, please contact our field services group by e-mail: ms-services@sensiaglobal.com.

D: Delivery date later than March 2018: No upgrades needed

For delivery dates after March 2018, you need only install the software. You can download the CALDON USM Measurement Advisor software from our website (www.sensiaglobal.com) install it on your laptop or PC, and start using it immediately.

For further support and training regarding, please contact our field services group by e-mail: ms-services@sensiaglobal.com.