

Product Change Notification (PCN)

PCN #: 1B-2020

DATE: 4/24/2020

1 PRODUCTS AFFECTED:

Laird Part Number	Old Rev	New Rev	Description
Temp & Humidity Sensors			
455-0001	9	11	Kit, Sentrius RS191 Sensor, Temp & Humidity, NA, 915MHz
455-0002	9	11	Kit, Sentrius RS186 Sensor, Temp & Humidity, EU, 868MHz
External Probe Sensors			
455-00069	2	4	Kit, Sentrius RS186 Sensor, External Temp Probe, EU, 868MHz
455-00070	2	4	Kit, Sentrius RS191 Sensor, External Temp Probe, NA, 915MHz

These top-level part numbers include various accessories and packaging, as well as the main Sentrius LoRa Sensor. All changes implemented in these kits have been associated with the LoRa Sensor itself and the table below shows the correlation between the included sensor and associated kits.

Note: This GA5 FW update is only for NA/EU versions of the sensors.

<i>Included Sentrius LoRa Sensor – Internal Part Number</i>				Associated Kit
Laird Part Number	Old Rev	New Rev	Description	
450-0182	12	14	Sentrius RS191 Sensor, Temp & Humidity, NA, 915MHz	455-0001
450-0183	12	14	Sentrius RS186 Sensor, Temp & Humidity, EU, 868MHz	455-0002
450-0180	7	9	Sentrius RS191 Sensor, External Temp Probe, NA, 915MHz	455-00070
450-0181	7	9	Sentrius RS186 Sensor, External Temp Probe, EU, 868MHz	455-00069

The information in this document is subject to change without notice.

2 DESCRIPTION OF CHANGES:

All changes have been applied to Sentrius sensor part numbers 450-0180, 450-0181, 450-0182, & 450-0183:

1ST MAJOR REV UPDATE:

- Updates to PCBA

2ND MAJOR REV UPDATE:

- GA5 FW Release

RELEASE NOTES ARE LOCATED AT:

[Release Notes for GA5](#)

3 REASON FOR CHANGE:

1ST MAJOR REV UPDATE:

- Board layout change / BOM updates on external port variants only, to accommodate new external port sensor interfaces across different manufactured SKUs
- Board layout change / BOM update to optimize power management for external port connected cable assemblies
- Improved LED brightness over battery voltage range
- MRP updates to improve manufacturability

2ND MAJOR REV UPDATE:

- GA5 FW update for Sentrius Sensor

4 ANTICIPATED IMPACT OF THE CHANGE:

- Enhanced LED brightness over battery voltage range
- Updated sensor control options available over LoRaWAN, as defined in the updated LoRa Protocol documentation
- Improved sensor rejoin process following loss of network server connection

5 METHOD OF IDENTIFYING THE CHANGED PRODUCT:

5.1 Top Level Part Number Changes (packaged kits)

- In the situation where older revision 450-part numbers have been installed with the latest FW 6.0 revision in production, a black dot will be placed on the sensor back label to indicate this change. A duplicate label will be placed on the base of the kit label as well in the bottom right hand corner.

Assemblies effected with this change are: 450-0180 Rev. 7, 450-0181 Rev. 7, 450-0182 Rev. 12, & 450-0183 Rev. 12.

Associated kit part number and revision will be printed on the label within red square area.



Note: Label located on the bottom right corner of the kit base label contains the same label info as printed on the sensor contained within the specific kit (~~On Sensor Changes~~ **On Sensor Changes** section).

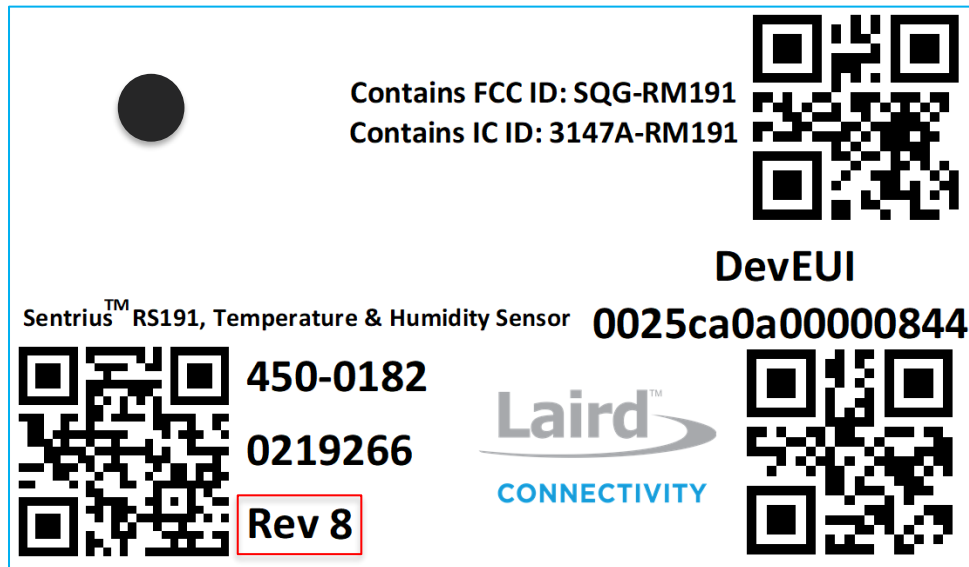
- Latest revision changes available as revision number printed on kit content label for all kits (Label located on the bottom left corner of the base kit label). Specific kit part number and revision printed on the label within red square area.



Note: Label located on the bottom right corner of the kit base label contains the same label info as printed on the sensor contained within the specific kit (~~On Sensor Changes~~~~On Sensor Changes~~ section).

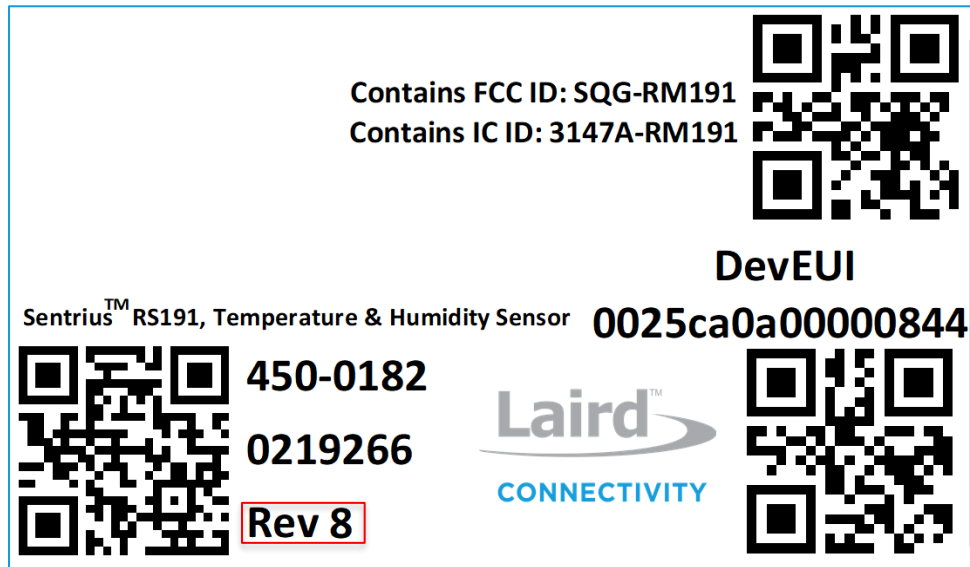
5.2 On Sensor Changes

- Labelling Changes for Sensors with an older 450 assembly revision, a “black dot” will be placed on the back-sensor label – Revision change available as revision number printed by barcode and within barcode for all sensor back labels.



Note: Revision level shown for reference. The appropriate revision level will be printed on the label.

- Labelling Changes for all latest revision sensors – Revision change available as revision number printed by barcode and within barcode for all sensor back labels.



Note: Revision level shown for reference. The appropriate revision level will be printed on the label.

6 FACTORY EFFECTIVITY DATE:

- Rolling Change – This will be a rolling change with the new revisions shipping starting in May 2020.

7 CONTACT INFORMATION:

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Product Change Notices (PCNs) will be distributed at the discretion of Laird. Occasionally, Laird may adjust product revision levels for internal tracking purposes only, and customers may not receive formal notifications associated with those revision changes.

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