590-002: SPEC Sensors Label Specification

1. Scope

This document defines the part label specifications for SPEC Sensors' electrochemical sensors.

2. 15 x 15 Sensor Labels (PNs: 100-XXX & 110-XXX)

All SPEC Sensors' 15 x 15 electrochemical gas sensors are tested and calibrated at the SPEC Sensors factory.

2.1 Full-Circle Label

Full-circle sensor labels include an alpha-numeric code, a two-dimensional bar code, the SPEC Sensors logo and any applicable certification markings. All 100-XXX and 110-XXX sensors utilize a full-circle label, except for those listed in Section 2.2 of this document. The labels include the information indicated in the table below.

(S) CO 1607 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Unique Serial Number ¹	Sensor Part Number ²	Target Gas ³	Date Code 4	Sensitivity Code ⁵
Alpha-Numeric Code ⁶ :		110109	СО	1601	6.20
2D Code ⁷ :	010116010101	110109	СО	1601	6.20
Logo ⁸					

Notes:

- 1. The Unique Serial Number will always contain 12 numeric digits.
- 2. The Sensor Part Number will always contain 6 numeric digits. Any hyphens are omitted.
- 3. The *Target Gas* can contain any number of alpha-numeric characters. The Target Gas is used to describe the gas sensing application.
- 4. The *Date Code* will always contain 4 numeric digits in YYMM format. The date code indicates the year and month in which the sensor was tested.
- 5. The Sensitivity Code may contain any number of numeric digits. It will always include 2 digits of precision. It will include a negative sign for Sensor Part Numbers with a sensitivity that is inversely proportional to gas concentration.
- 6. The Alpha-Numeric Code is always in a human-readable format and does not include the Unique Serial Number.
- 7. The 2D Code is always a QR Code with a 25 x 25 matrix size and a feature size of 0.25 mm. A single space is the delimiter used between all of the data fields.
- 8. The Logo includes the SPEC Sensors Logo.

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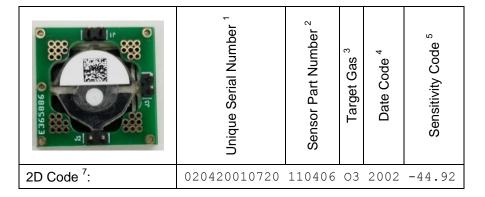
2.2 Half-Circle Label

Half-circle sensor labels include a two-dimensional bar code and any applicable certification markings. Sensor PNs that utilize a half-circle label include:

110-406 110-407 110-408

110-507 110-508

The labels include the information indicated in the table below.



Notes:

- 1. The Unique Serial Number will always contain 12 numeric digits.
- 2. The Sensor Part Number will always contain 6 numeric digits. Any hyphens are omitted.
- 3. The *Target Gas* can contain any number of alpha-numeric characters. The Target Gas is used to describe the gas sensing application.
- 4. The *Date Code* will always contain 4 numeric digits in YYMM format. The date code indicates the year and month in which the sensor was tested.
- 5. The Sensitivity Code may contain any number of numeric digits. It will always include 2 digits of precision. It will include a negative sign for Sensor Part Numbers with a sensitivity that is inversely proportional to gas concentration.
- 7. The 2D Code is always a Data Matrix Code with a 24 x 24 matrix size and a feature size of 0.17 mm. A single space is the delimiter used between all data fields.

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3. 10 x 10 Sensor Labels (Sensor PNs: 101-XXX & 110-XXX)

All SPEC Sensors' 10 x 10 electrochemical gas sensors are tested and calibrated at the SPEC Sensors factory. Sensors include a label with an alpha-numeric code, a two-dimensional bar code, and the SPEC Sensors logo. The labels include the information indicated in the table below.

SPEC SPEC	Unique Serial Number ¹	Sensor Part Number ²	Target Gas ³	Date Code ⁴	Sensitivity Code ⁵
Alpha-Numeric Code ⁶ :		110109	СО	1601	6.20
2D Code ⁷ :	010116010101	110109	СО	1601	6.20
Logo ⁸					

Notes:

- 1. The *Unique Serial Number* will always contain 12 numeric digits.
- 2. The Sensor Part Number will always contain 6 numeric digits. Any hyphens are omitted.
- 3. The *Target Gas* can contain any number of alpha-numeric characters. The Target Gas is used to describe the gas sensing application.
- 4. The *Date Code* will always contain 4 numeric digits in YYMM format. The date code indicates the year and month in which the sensor was tested.
- 5. The Sensitivity Code may contain any number of numeric digits. It will always include 2 digits of precision. It will include a negative sign for Sensor Part Numbers with a sensitivity that is inversely proportional to gas concentration.
- The Alpha-Numeric Code is always in a human-readable format and does not include the Unique Serial Number.
- 7. The 2D Code is always a Data Matrix Code with a 22 x 22 matrix size and a feature size of 0.25 mm. A single space is the delimiter used between all of the data fields.
- 8. The Logo includes the SPEC Sensors Logo.

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