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.

	Unique Serial Number [1]	Sensor Part Number [2]	Target Gas [3]	Date Code [4]	Sensitivity Code [5]
Alpha-Numeric Code [6]:		110109	CO	1601	6.20
2D Code [7]:	010116010101	110109	CO	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.

	Unique Serial Number [1]	Sensor Part Number [2]	Target Gas [3]	Date Code [4]	Sensitivity Code [5]
2D Code [7]:	020420010720	110406	O3	2002	-44.92

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.

	Unique Serial Number [1]	Sensor Part Number [2]	Target Gas [3]	Date Code [4]	Sensitivity Code [5]
Alpha-Numeric Code [6]:		110109	CO	1601	6.20
2D Code [7]:	010116010101	110109	CO	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 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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