

2D Barcode Specification

1. Colon is the delineator between each 2D barcode field.
2. Preferred label size for NORDAM is a 4" by 2.5" size label. A larger label can be utilized if the container size permits.
3. Every Purchase Order line item shall be individually packaged, bagged, tagged and/or boxed. The outer container will be identified with the 2D bar code label. The container bar code label shall adhere to the requirements in Table A below.
4. The two-dimensional symbol shall meet the Data Matrix ECC 200 in accordance with ISO/IEC 16022. The module size shall be no smaller than 0.0075 inch (0.19 mm) and no larger than 0.025 inch (0.635 mm). Square symbol sizes shall not exceed one inch (25.4 mm). The larger dimension of the rectangular Data Matrix symbols, as permitted by ISO/IEC 16022, shall not exceed one inch.
5. Field Name(s) item titles and corresponding data must appear as Human Readable Characters.
6. At a minimum, Purchase Order #, PO Line Item#, Part Number, Quantity, Unit of Measure, and Packing Slip # data fields shall be included on the label as Human Readable characters and included in the 2D bar code field.
7. Items which are controlled by shelf life and/or serialized shall have the pertinent information in the Human Readable fields and included in the 2D bar code. Leave the fields blank on items which this information is not applicable.

Table A

Field Name (Blue is Required)	Delimiter with Field Code	Field Type	Maximum # of Characters	Justification	Bar Code Symbology
Purchase Order #	PO	Text	10	Left	DataMatrix ECC200
PO Line Item #	:L	Text	5	Left	DataMatrix ECC200
Part Number	:P	Text	28	Left	DataMatrix ECC200
Description	:D	Text	37	Left	DataMatrix ECC200
Quantity	:Q	Text	17	Left	DataMatrix ECC200
Unit of Measure	:U	Text	3	Left	DataMatrix ECC200
Packing Slip #	:PS	Text	16	Left	DataMatrix ECC200
Expiration Date	:ED	Text	10	Left	DataMatrix ECC200
MFG Batch #	:MB	Text	15	Left	DataMatrix ECC200
Serial Number	:SN	Text	18	Left	DataMatrix ECC200


2D Label Format:

PO #	1234567890	Line Item	12345
Part #	1234567890123456789012345678		
Desc	1234567890123456789012345678901234567		
Quantity	12345678901234567	UoM	123
Packing Slip #	1234567890123456		
Expiration Date	1234567890		
MFG Batch #	123456789012345		
Serial #	123456789012345678		

Example of output when the label above is scanned:

PO1234567890:P1234567890123456789012345678:L12345:D1234567890123456789012345678901234567:Q12345678901234567:U123:PS1234567890123456:ED1234567890:MB123456789012345:SN123456789012345678

Alternate Example:

PO #	45123456789	Line Item	10
Part #	M9999-999-9999		
Desc	TEST DESCRIPTION		
Quantity	77	UoM	EA
Packing Slip #	18181818		
Expiration Date	1/1/2000		
MFG Batch #	111111		
Serial #	2222		

Alternate Label Scan Output:

PO45123456789:PM9999-999-9999:L10:DTEST
DESCRIPTION:Q77:UEA:PS18181818:ED1/1/2000:MB111111:SN2222