



# Transducer Warranty

## Date Code Numbering System

### Application Note – AN-10

Beginning in June 2010, Knowles Electronics transitioned to a new marking system which identifies the week and year of manufacturing, warranty period, lot number, and sub-lot number. Marking is based on the size of the transducer. Nearly all products are laser marked as illustrated at the top of the next page. The exact location of each field may vary depending upon the product family and model. There is a maximum of 12 characters per line, using 2 or 3 lines. Where product size restricts the amount of information that can be legibly marked, a maximum of 7 characters is used per line with 3 characters representing the actual model number.

Please note that sample units or pre-production prototype units will be marked with different manufacturing codes and are not covered under Knowles Electronics standard warranty policies.

#### Week and Year of Manufacture

The first three numbers (PPY) indicate the week and year of manufacture. The first two digits represent the manufacturing week while the third digit represents the manufacturing year. For example, a unit marked “470” was manufactured during the 47th week of 2010, while a unit marked “151” was manufactured during the 15th week of 2011. The first two digits will range from 01 to 52, representing all 52 calendar weeks during the year. The third digit will range from 0 to 9, representing the years 2010 through 2019.

#### Warranty Period

The fourth digit on transducers that do not have a size restriction indicates the warranty period of the particular transducer. Knowles Electronics transducers have either a one-year, two-year, or three-year warranty. This will be marked on the transducer as a “1”, “2”, or “3”, corresponding to a one year, two year, or three year warranty. Where product size restricts the amount of information that can be legibly marked, the warranty period will be omitted. See Information Bulletin IB-1, “Transducer Product Warranty”, for additional details and information on specific warranty coverage and policies for Knowles Electronics transducers.

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Knowles Electronics, LLC [www.knowles.com](http://www.knowles.com)



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Marking Format effective June 2010	Marking Format for product which has size restriction effective June 2010
<div style="border: 1px solid black; border-radius: 15px; padding: 10px; width: fit-content; margin: 0 auto;"> <p style="margin: 0;">KNNNNNNN</p> <p style="margin: 0;">PPYWLLLLLLSS</p> </div>	<div style="border: 1px solid black; border-radius: 15px; padding: 10px; width: fit-content; margin: 0 auto;"> <p style="margin: 0;">NNNPPY</p> <p style="margin: 0;">LLLLSS</p> </div>
K is the Knowles Logo (optional)	NNN is the Model Number Code
NNNNNNN is the Model Number	PP is the Production Week (01-52)
PP is the Production Week (01-52)	Y is the Production Year (0-9)
Y is the Production Year (0-9)	LLLLL is the Lot Number
W is the Warranty Period (1, 2 or 3 years)	SS is the Sub-Lot Number (01-99)
LLLLL is the Lot Number	+ is the Positive Terminal for Pairs
SS is the Sub-Lot Number (01-99)	>>> is the Leading/ Lagging Indicator for Pairs
+ is the Positive Terminal for Pairs	ZZZ is a Serial Number for Engineering
>>> is the Leading/ Lagging Indicator for Pairs	
ZZZ is a Serial Number for Engineering	



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Marking Format Prior to June 2010
<div style="border: 1px solid black; border-radius: 15px; padding: 10px; text-align: center;"><p>PPYYMW</p><p>KNNNNNNN</p></div>
PP is the Production Week (01-52)
YY is the Production Year (00-99)
M is the Manufacturing Location
W is the Warranty Period (1, 2 or 3 years)
K is the Knowles Logo
NNNNNNN is the Model Number
+ is the Positive Terminal for Pairs
>>> is the Leading/Lagging Indicator for Pairs
ZZZ is a Serial Number for Engineering Samples

### Warranty Period Extension

Should Knowles Electronics need to extend the warranty period on any particular transducer(s), this will be indicated by adding the “=” sign on the unit. Each “=” marked on the transducer will extend the warranty period one year from its normal expiration date. For example, a unit marked “4703” would normally have its warranty expiration during week 47 of 2013, three years after date of manufacture. Should this same unit require a warranty extension, it will be marked “=” and its warranty expiration then becomes week 47 of 2014 (four years after week of manufacture).

### Examples

- 4801 Manufactured week 48, year 2010, one-year warranty period expiring during week 48, 2011.
- 1602 Manufactured week 16, year 2010, two-year warranty period expiring during week 16, 2012.
- 4503 Manufactured week 45, year 2010, three-year warranty period expiring during week 45, 2013.
- = Extends the warranty by one year.