

TRANSDUCER DATE CODE AND WARRANTY NUMBERING SYSTEM



Knowles 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 standard warranty policies.

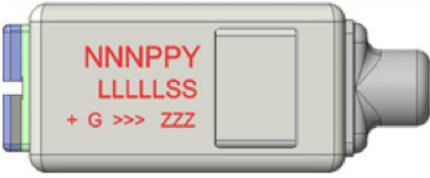
WEEK AND YEAR OF MANUFACTURE

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 number indicates the warranty period of the particular transducer. Knowles transducers have 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.



Marking Form	Marking Format for product which has restrictions
	
K is the Knowles Logo (optional)	
NNNNNNN is the Model Number	NNN is the Model Number Code
PP is the Product Week (01-52)	PP is the Product Week (01-52)
Y is the Production Year (0-9)	Y is the Production Year (0-9)
W is the Warranty Period (1,2 or 3 years)	
LLLLLL is the Lot Number	LLLLL is the Lot Number
SS is the Sub-Lot Number (01-99)	SS is the Sub-Lot Number (01-99)
+ is the Positive Terminal for Pairs	+ is the Positive Terminal for Pairs
>>> Is the Leading/Lagging indicator for Pairs	>>> Is the Leading/Lagging indicator for Pairs
ZZZ is a serial Number for Engineering Samples	ZZZ is a serial Number for Engineering Samples
G is Grading	G is Grading

WARRANTY PERIOD EXTENSION

Should Knowles 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).

Example	
2010+1 year	4801 Manufactured week 48, year 2010, one-year warranty period expiring during week 48, 2011
2010+2 year	1602 Manufactured week 16, year 2010, two-year warranty period expiring during week 16, 2012.
2010+3 year	4503 Manufactured week 45, year 2010, three-year warranty period expiring during week 45, 2013.
2010+3+1 year	4703= Manufactured week 47, year 2010, four-year warranty period expiring during week 47, 2014.

= Extends the warranty by one year.