



APPLICATION NOTE AN-10

Transducer Warranty Date Code Numbering System

All Knowles Electronics transducers *manufactured* on or after January 1, 2002, will be marked with a six-character alphanumeric warranty date coding system, formatted as four numbers, one letter, and a final number, #####?#. These six characters will indicate the week and year of manufacture, the manufacturing location, and the warranty period. Extensions of the warranty period can be made by Knowles Electronics by adding extra characters after the base date code marking. 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 four numbers of the date code indicate the week and year of manufacture. The first two digits represent the manufacturing week while the third and fourth digits represent the manufacturing year. For example, a unit marked “2702M3” was manufactured during the 27th week of 2002, while a unit marked “1303S2” was manufactured during 13th week of 2003. The first two digits will range from 01 to 52, representing all 52 calendar weeks during the year. The second two digits will range from 02 to 99, representing the years 2002 through 2099.

Location of Manufacture

The fifth character of the date code indicates the location of manufacture for the transducer. This will be a single alpha character representing manufacturing plant location.

Manufacturing locations are:

- I = Knowles Electronics USA (KEI)
- M = Knowles Electronics Malaysia (KEM)
- S = Knowles Electronics Suzhou, China (KES)
- W = Knowles Electronics Weifang, China (KEW)

Warranty Period

The final digit of the date code 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. See Information Bulletin IB-1, "Transducer Product Warranty", for additional details and information on specific warranty coverage and policies for Knowles Electronics transducers.

Warranty Period Extension

Should Knowles Electronics need to extend the warranty period on any particular transducer(s), this will be indicated by adding an "=" sign on to the end of the date code markings. Each "=" marked on the transducer will extend the warranty period 12 months from its normal expiration date. For example, a unit marked "2702M3" would normally have its warranty expiration during week 27 of 2005, three years after date of manufacture. Should this same unit require a 12 month warranty extension, it will be marked "2702M3=" and its warranty expiration then becomes week 27 of 2006 (four years after week of manufacture).

Examples

- 2702M3 → *Manufactured week 27, year 2002, at Knowles Malaysia (KEM), three-year warranty period expiring during week 27, 2005.*
- 1303S2 → *Manufactured week 13, year 2003, at Knowles Suzhou, China (KES), two-year warranty period expiring during week 13, 2005.*
- 3805W1 → *Manufactured week 38, year 2005, at Knowles Weifang, China (KEW), one-year warranty period expiring during week 38, 2006.*
- 1502I3= → *Manufactured week 15, year 2002, at Knowles USA (KEI), three-year warranty period, extended by one year, now expiring during week 15, 2006.*
- 4504M1= → *Manufactured week 45, year 2004, at Knowles Malaysia (KEM), one-year warranty period, extended by one year, now expiring during week 45, 2006.*
- 5102W1== → *Manufactured week 51, year 2002, at Knowles Weifang, China (KEW), one-year warranty period, extended by two years, now expiring during week 51, 2005.*

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NOTE: Specifications are subject to change without notice. The information on this Application Note reflects typical applications. Specific test specifications defining each model are available by requesting Outline Drawing Sheets 1.1 and Performance Specifications Sheets 2.1 of that model number. Knowles' responsibility is limited to compliance with the Outline Drawing and the Performance Specification application to the subject model at time of manufacture.