DALLAS SEMICONDUCTOR

DS9105
iButton™ Number Set

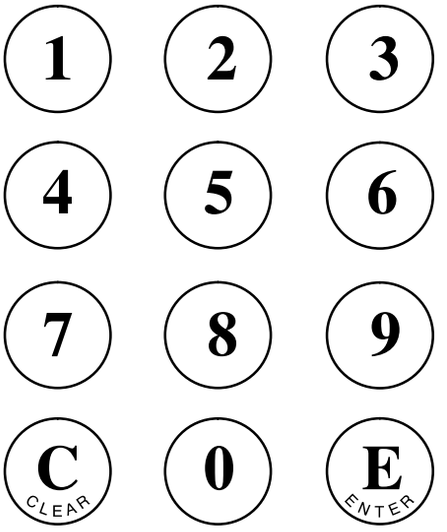
FEATURES

- Set of twelve DS1982–based iButtons preprogrammed according to TMEX standards to input numerical data
- iButton lids embossed with their respective character for optimum legibility
- User can expand the character set by programming generic DS1982s using the file name KB.0 for the data and attach iButton Halos (DS9106) for labels

EXAMPLES OF ACCESSORIES

DS9096P	Self–Stick Adhesive Pad
DS9092GT	iButton Wand
DS9097	PC COM–Port Adapter
DS1410E	PC LPT Port Adapter
DS9106S	iButton Halos Short
DS9106L	iButton Halos Long

KEYPAD EXAMPLE



ORDERING INFORMATION

DS9105–F5 Keypad of F5 MicroCans

DESCRIPTION

Unlike conventional keypads, where data is entered by pressing mechanical keys, the solid keys of an iButton keypad touch with a contact to create a signal path into a computer. This concept makes the iButton keypad a simple, robust alternative for data entry in harsh environments such as outdoors, industrial workplaces and other locations, where a normal keypad is impractical to operate. Since iButtons are made from stainless steel, this keypad is easily cleaned with hot water and detergent.

The individual iButtons that comprise the keypad can be arranged as desired to maximize ease of use. They can be stuck on a smooth surface using adhesive pads or mounted through 16.5 mm holes in a rigid material and fastened by lock rings. The material thickness should not exceed 3.0 mm.

The data is pre–programmed according to the TMEX specifications. Page 0 contains the device directory with the file entry KB.0. Page 1 contains the data file. The number key value or function name is stored as ASCII text such as **K0, K1, K2, K3, K4, K5, K6, K7, K8, K9,** for the numbers and **F18** for CLEAR, and **F0D** for ENTER. For further details on the data format, please refer to the Book of DS19xx iButton Standards.

iButtons can be read with IBM compatible PCs, DOS handheld/laptop computers running TMEX software, and microprocessors. TMEX drivers are available for the serial COM port and LPT parallel port.

For a detailed description of the communication protocol and the electrical characteristics of the iButton used in this keypad, please refer to the DS1982 data sheet.