SL-264 Keyboard Wedge iButton Reader

User manual

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The SL-264 is a keyboard-wedge decoder for standard IBM PC keyboards that reads Dallas touch memories (iButtons).

This means that it is inserted between the PC and the keyboard. The keyboard is used for entering data as before, but whenever an iButton is touched to the contact cup of the SL-264 the decoded data is sent to the PC as if it were entered on the keyboard.

The main advantage of this type of interface (as opposed to an RS-232 link to the reader for instance) is that existing application programs expecting manual data input don't have to be altered at all. The PC can't tell whether the data is coming from the keyboard or the decoder.

The reader is housed in a plastic case with the following dimensions: 100x48x25mm. The case has a red LED indicating the presence of the supply voltage and a green LED that indicates a good reading of an iButton. At the opposite end of the reader is the female DIN connector where the PC keyboard should be connected and a female RJ-11 connector for one end of the cable leading to the PC keyboard socket.

Notes:

- Since the PS2 keyboard interface specifications can greatly vary between motherboards (especially notebooks) operation is not guaranteed on all PCs and all combinations of PC/keyboard.

- Moving the mouse and/or pressing keys on the keyboard while the iButton code is being read and transferred to the PC is not recommended and can cause erroneous data and blocking of the SL-264. If the SL-264 is blocked i.e. beeps and does not accept iButtons, it is necessary to disconnect the RJ11 phone plug from the unit for a few seconds and reconnect it.

Setting the DIP - switches

There is a 4xDIP switch inside the case, which is used to set various modes of the decoder.

The yellow shaded fields are the deafult settings.

SW1	SW2	
ON	ON	^A is sent as a prefix and ^Z as a suffix to each ID code. The complete 8 byte code is sent
OFF	ON	only the last 4 bytes of the ID code are sent
ON	OFF	only the 6 bytes of the ID code are sent (CRC and Family Code are not sent)
OFF	OFF	all 8 bytes of the ID code are sent
SW3	ON	HU Keyboard
	OFF	US keyboard
SW4	ON	ENTER not sent after ID code
	OFF	ENTER sent after ID code