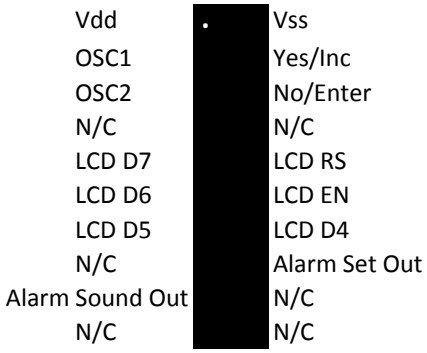
RK0035 - 2 x 16 LCD Digital Alarm Clock



18F14k22

Design RK0035 is a PIC based Microprocessor designed to function as a digital alarm clock This offers easy interface with 3 push buttons and a single 2 x 16 alphanumeric LCD. Timing is proved by a single 32.768 kHz watch crystal. Via OSC1 and OSC2

Programming the chip is achieved by providing three normally open push buttons to negiocate through a series of electronic menus to set time and set the alarm.

Alarm sound output provides a source of sound for the alarm. A single transister DC amplifier is recommended for higher volumes. Alarm set out is designed for an LED for alarm active indication.

Truth Table for push buttons

Function	Yes/Increment	No/Enter
Yes/Increment	1	0
No/Enter	0	1
Access Menu	1	1

PIC Chip Used	PIC18F14k22
System OSC	Internal
Tmr1 OSC	External 32.768 kHz Xtal
LCD	16 x 2 HD44780