[System Architecture](#h.h98c2qbs3qjk)

[Hardware Architecture](#h.x534mnp37c8o)

[Firmware Architecture](#h.i5bxigg37hib)

# System Architecture

230V, AC INPUT

MM

HH

SS

START/STOP

SET

INCREMENT

NEXT

HOOTER RESET

PUSH BUTTON STATION

# Hardware Architecture

PIC18F4520

PORTD

DATA

HH

PORTB

SS

MM

PUSH BUTTON STATION

DIGIT

SELECTION

PORTA

PA0-PA5

PORTC

HOOTER

RE1

RE2

LED

# Firmware Architecture

1. **PIC18F4520**

RTC DRIVER

DIGIT DISPLAY

LINEAR KEYPAD

APPLICATION

MATH FUNCTION