```
        ORG 0000H
        JMP MAIN
        ORG 0003H
        JMP URGENT
        ORG 000BH
        JMP FULL
        ORG 0013H
        JMP KEYS
        ORG 001BH
        JMP RPM

        ORG 0100H
MAIN :  MOV SP,60H
        MOV IE, #8FH
        MOV TMOD,#66H
        MOV IP,#07H
        MOV TCON,#55H
        MOV TH0,#00H
        MOV TL0,#00H
        MOV TH1,#0FFH
        MOV TL1,#0FFH
        MOV P1,#0FFH
        MOV DPTR 3FFFH
        MOV A 91h
        MOVX @DPTR A   (8255 定义输入输出)

        MOV DPTR 3FFC
        MOV A #0FFH
        MOVX @DPTR A   (8255 PA 口全置为 1)

        MOV DPTR 3FFD
        MOV A #0FFH
        MOVX @DPTR A   (8255 PB 口全置为 1)

        MOV DPTR 3FFE
        MOV A #0FFH
        MOVX @DPTR A   (8255 PC 口全置为 1)

WAIT:   JMP $


        ORG 0200H
KEYS:   MOV A,P1
        CPL A
```

```
        JZ RETURN
        NOP
        NOP
        NOP
        JB ACC.0, PUMP
        JB ACC.1, FORWARD
        JB ACC.2, BACKWARD
        JB ACC.3, PAUSE


        JMP RETURN


RETURN:MOV P1 #0FFH
        RETI


PUMP:   MOV 10H,#10D
CONT1: JZ P1.5 KEYS (压力反馈准确，检查其他按键)

        MOV DPTR 3FFDH
        MOV A #80H
        MOVX @DPTR A
        NOP
        NOP
        MOV DPTR 3FFDH
        MOV A #0B0H
        MOVX @DPTR A
        MOV 11H,#4EH
        MOV 12H,#20H
        CALL DELAY1
        DJNZ 10H,CONT1      （启动油泵）

        MOV DPTR #5FFFH
        MOV @DPTR A
        CALL DELAY
        MOVX A,@DPTR        (ADC0809 启动转换并读取结果)

        MOV R0 #01H
        MOVX B @R0
        SUBB A B      (设用户压力数据存放在 01H)
        CJNE A,#00H, FEEDBACK1
        CLR P1.5
        JMP KEYS
```

```
FEEDBACK1:   JNB ACC.7,CONT2
             JMP CONT1

     CONT2: MOV DPTR 3FFDH
             MOV A #00H
             MOVX @DPTR A
             NOP
             NOP
             MOV DPTR 3FFDH
             MOV A #40H
             MOVX @DPTR A
             MOV 11H,#4EH
             MOV 12H,#20H
             CALL DELAY1
             DJNZ 10H,CONT2

             MOV DPTR #5FFFH
             MOV @DPTR A
             CALL DELAY
             MOVX A,@DPTR          (ADC0809 启动转换并读取结果)

             MOV R0 #01H
             MOVX B @R0
             SUBB A B      (设用户压力数据存放在 01H)
             CJNE A,#00H, FEEDBACK1
             CLR P1.5
             JMP CONT1
```

FORWARD:

```
             JNB P1.6 KEYS (转速调好会去检查其他按键)
             MOV B A     ;存储当前转速
             MOV DPTR 3FFD
             MOV A #7FH
             MOVX @DPTR A   (8255 PB 端口正转口置为 0，同时反转口置为 1 启动继电器，交流异步电正转)
             SETB TR1
             CALL DELAY10ms
```

RPM: MOV 20H TL1 （使用 1900rpm 的电机，每秒最大转速为 31 转，50ms 产生 62 个脉冲，不会超出 T1 计数器工作方式 2 的计数极限。）

```
             MOV A 20H
             MOV R1 02H
             MOVX R2 @R1
```

```
                SUBB A R2
                CJNE A, #00H, FEEDBACK2
                CLR P1.6
                JMP KEYS
FEEDBACK2: JNB ACC.7, SLOWER
                CPL ACC.7
                JMP QUICKER
   QUICKER:   SUBB B A
                MOV DPTR #7FFFH
                MOV A B
                MOVX @DPTR A
                JMP FORWARD
   SLOWER:    ADD B A
                MOV DPTR #7FFFH
                MOV A B
                MOVX @DPTR A
                JMP FORWARD
```

BACKWARD:

```
                JNB P1.6 KEYS (转速调好会去检查其他按键)
                MOV B A
                MOV DPTR 3FFD
                MOV A #7FH
                MOVX @DPTR A  (8255 PB 端口反转口置为 0 同时正转口置为 1，启动继电器，交流异步电反转)
                SETB TR1
                CALL DELAY10ms
      RPM:      MOV 20H TL1 （使用 1900rpm 的电机，每秒最大转速为 31 转，50ms 产生 62 个脉冲，不会超出 T1 计数器工作方式 2 的计数极限。）
                MOV A 20H
                MOV R1 02H
                MOVX R2 @R1
                SUBB A R2
                CJNE A, #00H, FEEDBACK2
                CLR P1.6
                JMP KEYS
FEEDBACK2: JNB ACC.7, SLOWER
                CPL ACC.7
                JMP QUICKER
   QUICKER:   SUBB B A
                MOV DPTR #7FFFH
                MOV A B
                MOVX @DPTR A
                JMP FORWARD
```

```
SLOWER:   ADD B A
          MOV DPTR #7FFFH
          MOV A B
          MOVX @DPTR A
          JMP FORWARD


PAUSE:    JB P1.3 CONTINUE
          MOV DPTR 3FFCH
          MOVX 22H @DPTR   (8255 PA 口状态保存)

          MOV DPTR 3FFDH
          MOVX 23H @DPTR   (8255 PB 口状态保存)

          MOV DPTR 3FFEH
          MOVX 24H @DPTR   (8255 PC 口状态保存)

          MOV DPTR 3FFCH
          MOV A #0FFH
          MOVX @DPTR A   (8255 PA 口全置为 1)

          MOV DPTR 3FFDH
          MOV A #0FFH
          MOVX @DPTR A   (8255 PB 口全置为 1)

          MOV DPTR 3FFEH
          MOV A #0FFH
          MOVX @DPTR A   (8255 PC 口全置为 1)
          JMP PAUSE
CONTINUE:
          MOV DPTR 3FFCH
          MOV A 22H
          MOVX @DPTR A   (8255 PA 口全置为 1)

          MOV DPTR 3FFDH
          MOV A 23H
          MOVX @DPTR A   (8255 PB 口全置为 1)

          MOV DPTR 3FFEH
          MOV A 24H
          MOVX @DPTR A   (8255 PC 口全置为 1)
```

```
URGENT:MOV DPTR,3FFEH
       MOV A, @DPTR

CHEAK:JNB ACC.4,BPQ
      JNB ACC.5,GLQ
      JNB ACC.6,FULL
      JNB ACC.7,MPA
      JMP $

BPQ :  MOV A #11H
       JMP CHEAK
GLO :  MOV A #22H
       JMP CHEAK
FULL:  MOV A #33H
       JMP CHEAK
MPA:   MOV A #44H
       JMP CHEAK
```

对用户存储器的读写功能：

```
MOV DPTR,#1FFFH
MOV A,#××H
MOVX @DPTR,A

MOV DPTR,#1FFFH
MOVX A,@DPTR
```