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