KCM-LCD

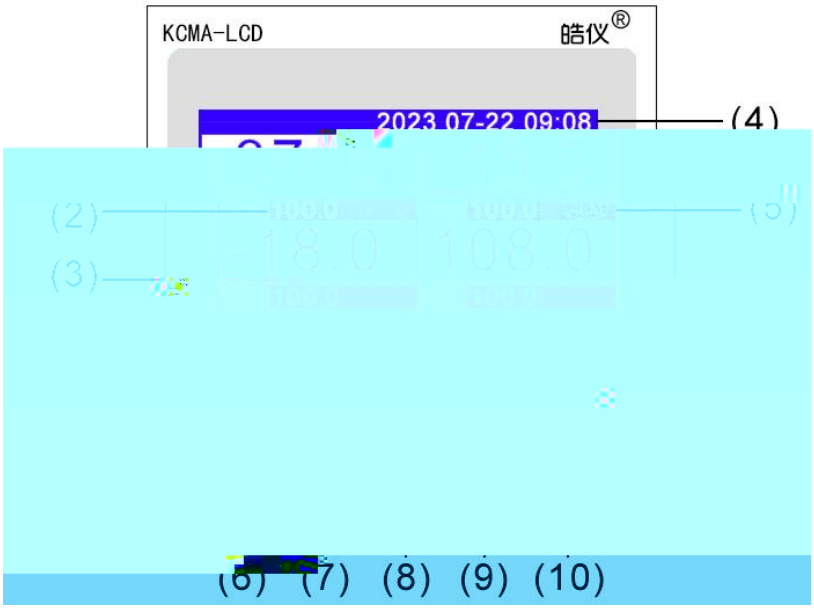
KCM-LCD

PID 4-20mA 0-10v

PID

1 CU50 -50.0 150.0 Pt100 -199.9 600.0
K 0 1300 E 0 700.0 J 0 1200.0 T(0 400)
2 (220V <3A) 4-20mA 0-10v
3 ±0.5%F·S±1
4 AC85 242V 50/60Hz 5W
5 0~50 RH

1 PV
2 SV PV 4
3 10
4
5 ALM
6
7 3
8
3
9
10



4-1

0	**LOCK**		0 50	18 18	18

1	**SN**		-	CU50( ) PT100( ) K( ) E( ) J( ) T( ) 4-20mA( )	-
2	**OPB**		0 1	RS485	-
3	**ADDR**		0 255		1
4	**BAUD**		0 3	0 1200 1 2400 2 4800 3 9600	

SP, HY ,P ,OP 4-1 6,7,12,20

1. OUT
2. PV -HH- -LL- -HH- -HH- -LL-
   4-20mA 4mA -LL-

1 90 OUT 100 OUT ,
SP=100,HY=10,OP=0,P=0

2 100 OUT 90 OUT ,
SP=90,HY=10,OP=1,P=0

4.2.1 4-20mA/0-10V

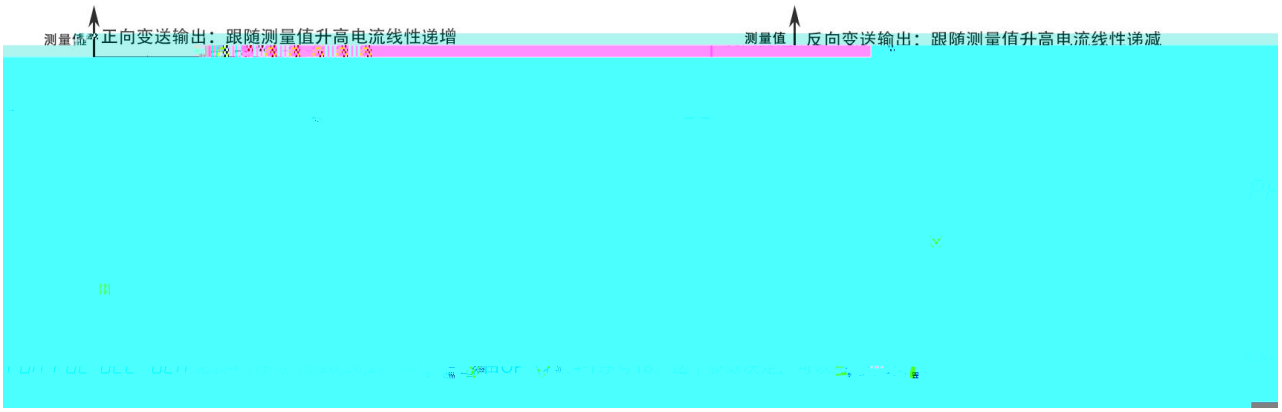
4-2

OP 2 OUT2		OP 7 5 OUT1
0: PID	OP=0	PID
1: PID	OP=1	PID
2:	OP=2	PBH,PBL
3:	OP=3	PBH,PBL
4:	OP=4	PBH,PBL
5:	OP=5	PBH,PBL
6:	OP=6	PV1-PV2 PV3-PV4 PBH,PBL
7:	OP=7	PV1-PV2 PV3-PV4 PBH,PBL
8: PID	OP=8	PV1-PV2 PV3-PV4 SP PV1-PV2 PV3-PV4
9: PID	OP=9	PV1-PV2 PV3-PV4 SP PV1-PV2 PV3-PV4
PV1~PV4		4-1 18:OP 19:PBH 20:PBL

4.2.2

PBH PBL UTL UTH UTL=4,UTH=20mA.OP

PBH PBL



4.2.3 输出举例：第 1 路和第 2 路温度差 10 度时输出 4mA,差 5 [illegible] 20mA,即温差越大输出越小，输出电 OUT1 端子上实现。需要修改以下三个参数：

OP=7(OP)

PBH=5 5 20mA,PBL=10 10 4mA

OUT OUT1

PBH=10 ,PBL=5: 5 4mA ,10 20mA,5~10

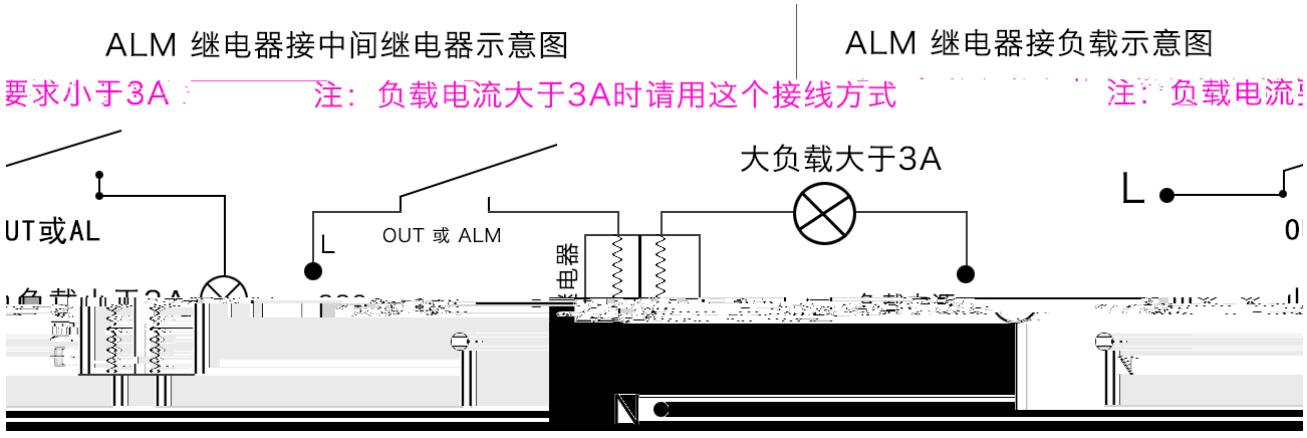
20mA

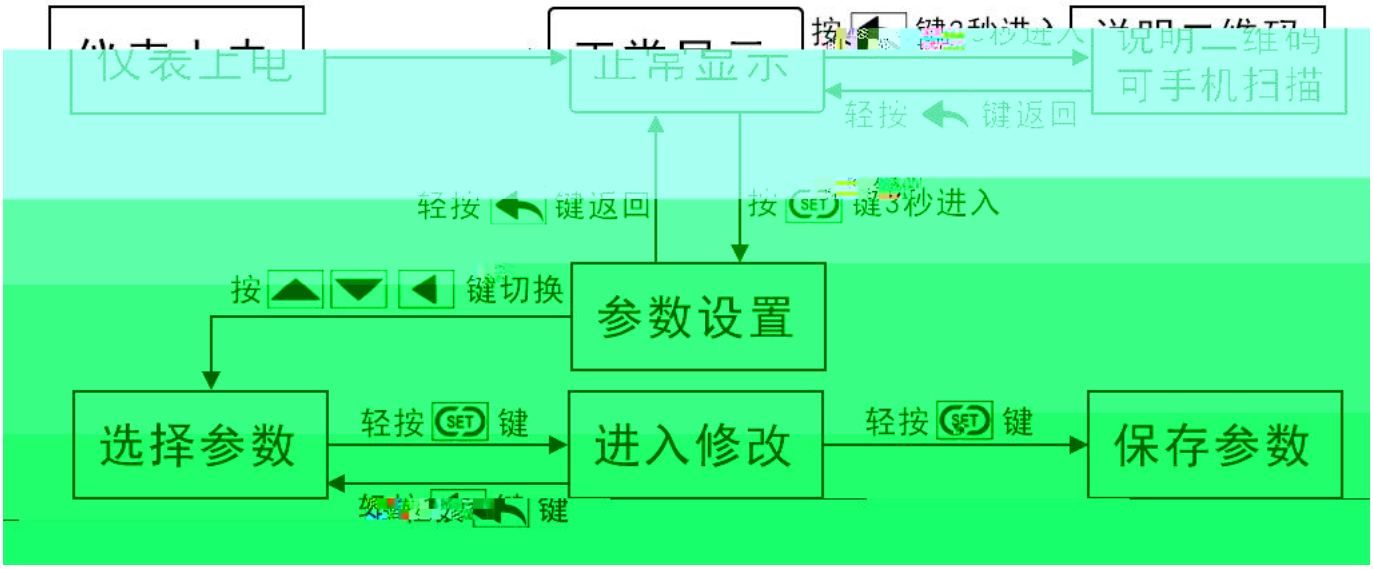
4.3.1 (220V <3A)

4-3

1:	ALP=1	PV1 AL	PV1< AL − AHY
2:	ALP=2	PV1 AL	PV1> AL + AHY
3:	ALP=3	PV1 SP + AL	PV1< SP + AL − AHY
4:	ALP=4	PV1 SP − AL1	PV1> SP − AL + AHY
5:	ALP1=5	PV1 AL PV1 ALH	AL1 + AHY < PV1< ALH − AHY
6:	ALP1=6	AL PV ALH	PV1< AL − AHY PV> ALH + AHY
7:	ALP1=7	PV1 − PV2 AL1	PV1 − PV2< AL1 − AHY
8:	ALP1=8	PV1 − PV2 AL1	PV1 − PV2> AL1 + AHY
PV1 PV2 , 4-1 6: SP, 8: ALH ,9: AL, 10: AHY,19: ALP			

4.3.2





,

P I D

PT100

SP Hy 0.5 1 , AT on

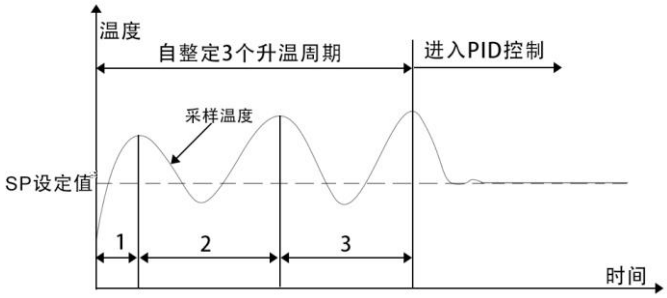
20-60

N AT

P I

D N AT AT

OFF PID



AT OFF

KCM-LCD

KCM-LCD

1

PC PLC RS485 RS232 255

2

1 1200 2400 4800 9600 1 8 1

2

1

	(03)		<20	CRC16
010310010001D10A				
	01 03 1001( )0001 <0005 D10A CRC CRC			

2

		2		CRC16
0103027FFFD834				
	01 03 02(2)7FFF D834 CRC 7FFF 10 32767			

3 126

	(06)	00xx		CRC16
0106000604EC6A86				
	01 06 0006( )04EC 6A86 CRC 04EC 10 1260 10 12.5 125			

			PLC
(PV)	YES	1001H~1006H 6	44098~44103 6
	NO	1101H~1106H	44354~44359
	NO	1201H~1206H	44610~44615
4-1			
LOCK	NO	0000H	40001
CF	NO	0005H	40006
1	4-1		
SP1~ UTL1	-	0006H~001BH	40007~40028
2	4-1		
SP2~ UTL2	-	001CH~0031H	40029~40050
3	4-1 2		
SP3~ UTL3	-	0032H~0047H	40051~40072
4	4-1		
SP4~ UTL4	-	0048H~005DH	40073~40094

5 MODBUS PLC


```
void CRC16_S(byte[] data, int len)
        {
            byte CRC16Lo;
            byte CRC16Hi;   //CRC寄存器
            byte CL; byte CH;       //多项式码&HA001
            byte SaveHi; byte SaveLo;
              int Flag;
              CRC16Lo = 0xFF;
              CRC16Hi = 0xFF;
               CL = 0x01;
               CH = 0xA0;
               for (int i = 0; i < len; i++)
               {
                   CRC16Lo = (byte)(CRC16Lo ^ data[i]); //每一个数据与CRC寄存器进行异或
                    for (Flag = 0; Flag <= 7; Flag++)
                    {
                        SaveHi = CRC16Hi;
                        SaveLo = CRC16Lo;
                        CRC16Hi = (byte)(CRC16Hi >> 1);      //高位右移一位
                        CRC16Lo = (byte)(CRC16Lo >> 1);      //低位右移一位
                        if ((SaveHi & 0x01) == 0x01)
                        {
                            CRC16Lo = (byte)(CRC16Lo | 0x80);
                        }
                        if ((SaveLo & 0x01) == 0x01)
                        {
                            CRC16Hi = (byte)(CRC16Hi ^ CH);
                            CRC16Lo = (byte)(CRC16Lo ^ CL);
                        }
                    }
                }
                data[len++] = CRC16Lo;
                data[len] = CRC16Hi;
            }
```

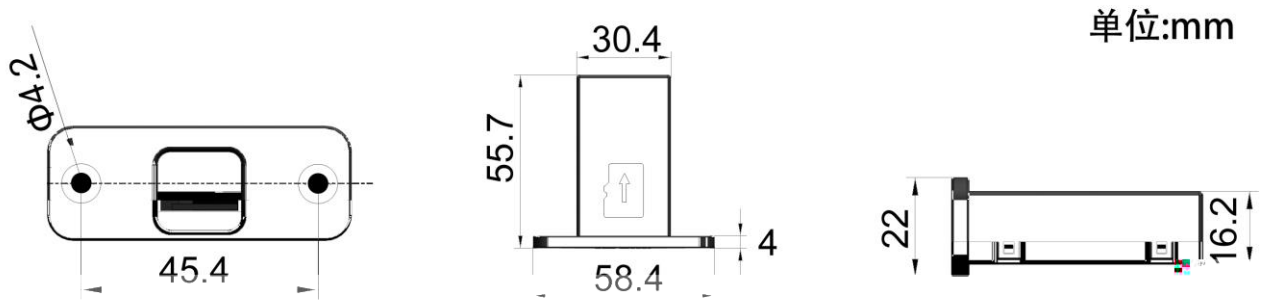
TF

1 1 1

CSV EXECL

TF SD

1G TF 15,768,000 1
TF 16G~128G
0 60.0 , 85%
5v



3-1

1	YEAr	YEAR			2000 2099	
2	nth	MTH			00 12	
3	dAY	DAY			00 31	
4	Hour	HOUR			00 23	
5	nIn	MIN			00 59	