A80 temperature control meter instruction manual

The meter has international standard external dimension and 3-key gentle push switch setting, single row 4-LED display. The temperature error can correct, return difference can be adjusted, control precision is high.

I、Technical specification:

1、Input type：PT100(-50.0~300.0℃)　　NTC10K: B= 3435(-50.0～150.0℃)

2、Accuraacy: ±0.5%F·S　±1B

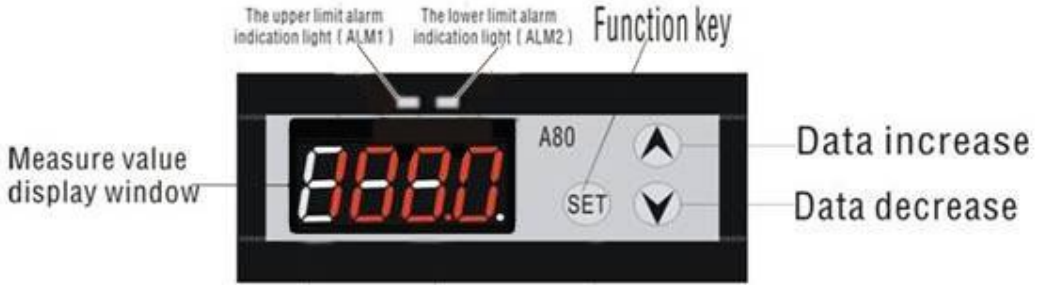
3、Relay output contact capacity：ALM1：16A/240VAC；　　ALM2：3A/240VAC

4、External dimension(mm)：76×34×72　　hole size(mm)：71×29

5、Working power：AC110～242V，50/60HZ,　power dissipation is less than 3W

6、Working environment：temperature 0～50□, relative humidity≤85%RH, without corrode and strong electric radiation.

II、The panel illustration(consult):



III、The inner parameters:

Series	Prompt	Name	Set range	Remark	Ex-Factory
1	LoCY	Electronic lock	0～50	When LOC=18, all parameters can be revised; When LOC≠18, all parameters can not be revised.	18
2	AL_1	The upper limit alarm	PT100：-50.0～300.0℃ NTC10K：-50.0～150.0℃	Please refer to "**VI、alarm output**"	100
3	AL_2	The lower limit alarm			50
4	HY1	The upper limit alarm return difference	0.1～20.0		1.0
5	HY2	The lower limit alarm return difference			1.0
6	SC	Measurement error modifier	±20.0	The measured value can be modified through increasing or decreasing this data.	0
7	dP	Decimal point	on or oFF	on：Open decimal point； oFF：Close decimal point；	oFF
8	Sn	Input type	ntC or Pt	NTC10K：ntC； PT100：Pt	Pt

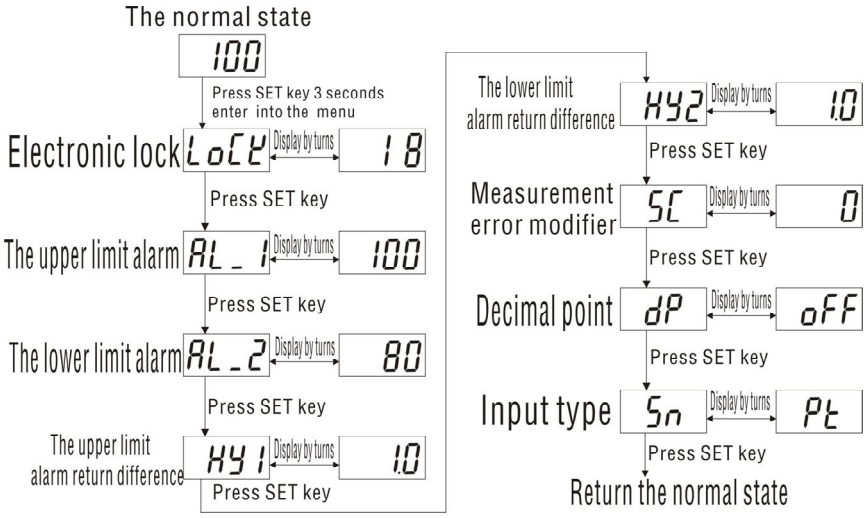
IV、The meter operation：

1、Please connect the power, sensor and output controlling wires properly according to the connection scheme. Then the current is switched on**.** The meter displays the measured temperature value after self-test.

2、The parameters modify:

Press SET key for 3S to enter into the parameters modification status. The meter first displays the parameter code and then display parameter value，press ▲ or ▼ key to adjust parameter value. After modification, press SET to save and enter into the next parameter modification status. The order of modifying parameters refer to the instruction manual of "**III、The inner parameters**" and "**V、Operation flow chart**".

V、Operation flow chart：



VI、Alarm output：

1. The upper limit alarm (AL_1):

When the measured temperature value≥ AL_1, the indicator ALM1 on the panel is light, and the terminals 1 and 2 connect;

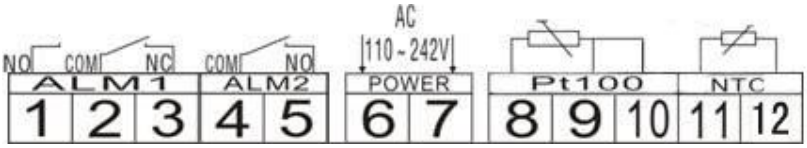
When the measured temperature value≤ AL_1-HY1, the indicator ALM1 on the panel is off, and the terminals 1 and 2 disconnect;

2. The lower limit alarm (AL_2):

When the measured temperature value≤ AL_2, the indicator ALM2 on the panel is light, and the terminals 4 and 5 connect;

When the measured temperature value≥AL_2+HY2, the indicator ALM2 on the panel is off, and the terminals 4 and 5 disconnect;

VII、Connection scheme (consult):



VIII、Fault Analysis and Clearance:

The meter adopts advanced production process, and have the strict test before leaving factory, it improve the reliability of the meter. The usual fault is caused by the wrong operation or the parameter setting .If you find the fault couldn't be cope with, please record it, and contact with the agent or us. Sheet 8-1 is the usual fault of the meter in the daily application：

Sheet 8-1 Common fault handling

Fault symptom	Analysis of causes	Disposal measurement
Abnormal power	1、Poor contact of power cord 2、Power switch without close	Check the power
Signal display do not correlate with the fact.（display'HH'or'LL'）	1、Sensor model mismatch 2、Wrong signal connection	1、Check sensor model and the meter interior input type parameter 2、Check signal wire
Abnormal output control	1、Wrong connecting output wire	1、Check output connection

Remark：Our company will improve product technology、design and specification. If change, please subject to the material object, without notice.