

Instruction of Temperature Recorder

OLIRU Temperature Recorder with good features as below: reliable performance, large data recording capacity, high accuracy, easy-to-use, protection on modifying of parameters and passwords, small size.

Main performance parameters:

- ◆ Temperature measuring range: -40℃ ~ +110℃
- ◆ Accuracy: ± 1℃
- ◆ Resolution: 0.1℃
- ◆ Alarming value: 1~10℃ (adjustable)
- ◆ Alarming output: buzzer + alarming relay contact output (10A.240VAC/30VDC)
- ◆ Recording cycle: 1Min~24Hours (adjustable)
- ◆ Recording and measuring ways: one way
- ◆ Print output: 232 interface connect to printer for output
- ◆ Power Supply: 12V AC or 12V DC
- ◆ Start delay: 0~6 hours (adjustable)
- ◆ Alarming delay: 0~90 minutes (adjustable)
- ◆ Recording capacity: 3000 points (MAX.)

Instruction:

1. Parameter browse:

Under normal working status press "▲" key or "▼" key into parameter browse. By "▲" key or "▼" key to set and to display "A" basic item parameters: AXXX, 2AXX, 3AXX, 4AXX, 30 Seconds without operation to the "▲" key or "▼" key, return to normal working status.

2. Parameter setting:

Press "SET" key for 5 seconds into parameter setting status, the screen displays "E---" for telling to input the password. By "▲" key, "▼" key and "SEL" key input the password value E000-E999 (adjustable): "▲" key- set the Hundred-digit circularly from 0-9; "▼" key- set the Ten-digit circularly from 0-9; "SEL" key-set the One-digit circularly from 0-9. After input the password then press "SET" key to confirm. If input password wrong, return and wait to password re-setting status. If input password wrong for 3 times or without pressing any key for 30 seconds, return to former working status. After inputting password then into the setting of the menu (total 7 menus); the screen displays A basic item parameter setting submenu under default status with displaying -AA-. By "SEL" key can select these 6 submenus circularly, the submenus are: basic parameter setting submenu-AA-, system time setting submenu-BB-, recording cycle setting submenu-CC-, print setting submenu-DD-, password modifying submenu-EE-, print setting submenu-FF-, press "SET" key to see the current submenu. After into the submenu by "SEL" key to select the modifying item and press "▲" key or "▼" key to modify the parameters; after modifying press "SET" key to save the changed parameters and return to the chief menu. Press "SET" key or select "ESC" to exit setting status and return to the working status.

Parameter Index:

Menu Items	Function	Setting range	Factory set
---AA--- Basic parameter setting submenu			
AXXX	Temperature	-39℃---109℃	25℃
2AXX	Alarming temp. difference		2℃
3AXX	Start delay		1
4AXX	Alarm delay		5
---BB--- System time setting submenu			
BXXX	Year set	(20)00---(20)99	
2BXX	Month set	01---12 (Month)	
3BXX	Day set	01---31 (Day)	
4BXX	Hour set	00---23 (Hour)	
5BXX	Minute set	00---59 (Minute)	

---CC--- Recording cycle setting submenu			
CXXX	Hour setting	00---23 (Hour)	00
2CXX	Minute setting	00---59 (Minute)	05
---DD--- Print setting submenu			
DXXX	Print start day setting	00 (Last month) ---01 (Current month)	01
2DXX	Date setting	1---31 (Day)	
3DXX	Hour setting	00---23 (Hour)	
4DXX	Print end day setting	00 (Last month) ---01 (Current month)	01
5DXX	Date setting	1---31 (Day)	
6DXX	Hour setting	00---23 (Hour)	
---EE--- password modifying submenu			
E---	New password input	000---999	111
---FF--- Print submenu			
FF	Print status		
ESC quit the options			
ESC save the changed parameters and quit the setting sta			

Error status

- ◆ Sensor error: buzzer alarms and display error code "EE" and Value displays twinklingly when sensor short circuit or open circuit.
- ◆ Alarm when exceeding temperature limits: the showing values blink and buzzer alarms when measuring temperature \geq setting temperature + alarming temperature difference or \leq setting temperature - alarming temperature difference, press any key to eliminate the alarming voice.
- ◆ Exceeding upper measuring limits: display HH, buzzer alarms, the current value twinkles and press any key to eliminate the alarming voice.
- ◆ Exceeding lower measuring limits: display LL, buzzer alarms, the current value twinkles and press any key to eliminate the alarming voice.
- ◆ Alarming output: Relay output

Work flow:

After electrified the digital tube displays current temperature, the working indicator light on, and the recorder works by the presetting parameters. Users can reset the parameters. When recording the data the indicator light will twinkle. When measuring temperature exceeds the alarm setting value, the alarm indicator light on, buzzers and current value displays twinklingly, alarming relay output; press any key to eliminate the alarming voice, current value displays twinklingly and the relay alarming status without change. When the temperature recover to the normal value, alarming automatically stops. Data printing is manually operated, by setting the printing time sect in the setting menu, press SET key to print the data under the status of -FF-. When display FF it shows on the printing status and if do not find the valid data and printing will stop. During type process, press "▲" key to end typing or press the printer "SEL" key to stop printing temporarily.