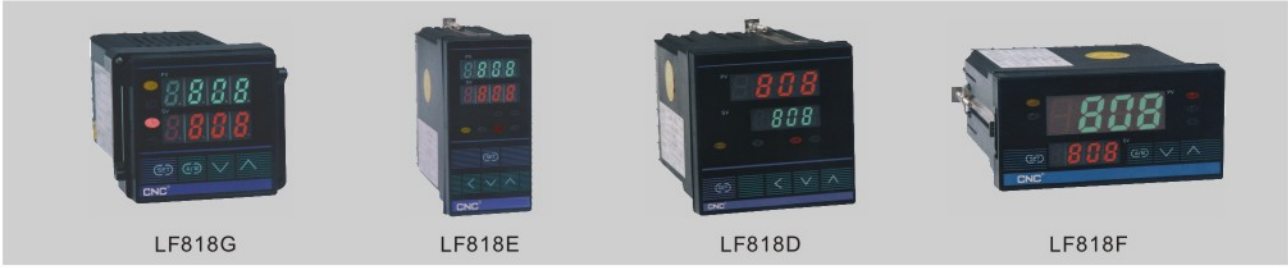
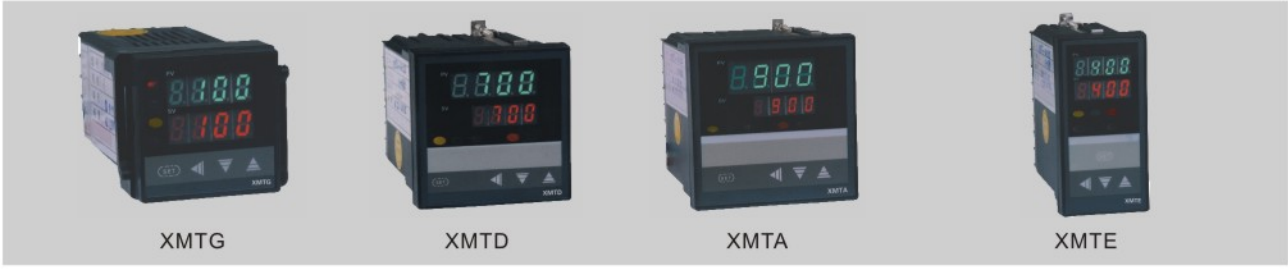
Temperature Controller





1. General

LF818 series intelligent digital temperature regulator adopt the advanced microcomputer intelligent control technology, and it has strong noise proof ability. The products are made according to the international standards by taking wide range switching power.

The products own the advanced PID adjustment composed with the latest fuzzy control to deal with the controlled high-speed changing and retardation time. Because of the advantage non-super adjusting plan, the products are easier to use.

This series of intelligent digital temperature controller is an economical meter with high ration of quality to price, and can take the place of conventional digital temperature controller. It has a combined control instrument of multi-function control, alarm, transmitting as well as PID control function.

2. Specifications

Input signal
(1)Electric thermocouple S、R、B、K、N、E、J、T、W 5Re/W26Re PLIIUL
(2)Thermal resistance Pt100 Jpt100 Cu50
(3)Linear signal 0-5V 1-5V mVF (frequency) 0-10mA 0-20mA 4-20mA
(4)Linear signal radiations
(5)Definable nonstandard signal inputting Elementary error: input a character±0.2% of the full range.
Resolution ratio: 1°C、0.1°C.
Sampling period: 3 times/sec, can reach 8 times/sec.
Alarm function: Upper bound, lower limit, upper deviation, lower deviation, upper and lower deviation, within the range of waiting alarm.
Control output: Relay contact AC250V 3A(resistance)
Alarm output:
(1)Relay contact AC250V 3A(resistance)
(2)Logical voltage: DC 0-5V
(3)Zero passage pulse actuating: optically thyristor output 1A 600V
(4)phase-shift pulse actuating: optically thyristor output 1A 600V
(5)0-10mA output current(load resistance under 600Ω)
(6)0-20mA output current(load resistance under 600Ω)
(7)0-40mA output current(load resistance under 600Ω)
Control ways: PID fuzzy control. State control, Handle control.
Manual operation: Modify the output by keyboard.
Dower voltage:(1)AC85-264V(50/60Hz)(Rated 100-240V AC)
(2)21.6-26.4V AC(Rated 24V AC)
(3)21.6-26.4V AC(Rated 24V AC)
Operating temperature: Non-corrosion place with temperature 0-500℃ humidity<85% HP Power consumption<5VA
Overall dimension: S:80×160, A:96×96, D:72×72, E:96×48, F:48×96, G:48×48mm.

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3. Feature

3.1 Wide red and green numerical tubes display PV and SV simultaneously.
3.2 Sensing signal appointed input
3.3 Automatic transducer adjusting
3.4 Function of second class data lock protection
3.5 Accuracy:(1)1%FS1character (2)0.5% FSI character
3.6 Alarming range: Free design of the full range.
3.7 Operation range:(1)switching power (2)Transformer supplying.

4. Type And Meaning

XMT□ -9□□□□—Notation: no notation, intelligent double number display
R E X PID self-synchronizing function

Face dimension (Width×height)
A.96×96(92×92)
D.72×72(68×68)
E.48×96(45×92)
F.96×48(92×45)
G:48×48(45×45)
T.160×80(152×76)

Input signal:1-thermocouple(mv):K,E,S,B etc.
2-thermal resistance(Ω):Cu50, Pt100 etc.
3-Hall transmitter of CP differential manometer
4-romote sending manometer
5-basic current 0-10mA, 4-20mA

Alarm function: 0-no alarm function
1-high limit contact output alarm function
2-lower limit contact output alarm function
3-upper lower limit contact output alarm function

Adjusting style:0-two states adjustment(without fuzzy controlled function)
1-three states adjustment(without fuzzy controlled function)
2-PID adjustment with contact break-make
3-PID adjustment with driving solid relay
4-single phase output over zero triggered signal PID adjustment
5-three phases output over zero triggered signal PID adjustment
6-PID adjustment with 0-10mA output current


SG-671 SG-642 SG-661


SG-622 SG-632 SG-742

5. Specification

Type	Input signal	Accuracy	Law of regulation	Alarm function	Output	Standard Current	Power	Size
SG-681 SG-671 SG-642	K, J, Pt 100	0.5,1.0	Two-phase style, time proportion adjustment style	It has alarm function	Relay, Solid state relay	0-10mA 4-20mA	AC110/220V 50/60Hz	96×96×100 mm
SG-612 SG-661 SG-622 SG-632	K, J, Pt 100	1.5	Two-phase style, time proportion adjustment style	It has alarm function	Relay, Solid state relay	——	AC110/220V 50/60Hz	96×96×100 mm
SG-771 SG-742	K, J, Pt 100	0.5,1.0	Two-phase style, time proportion adjustment style	It has alarm function	Relay, Solid state relay	0-10mA 4-20mA	AC110/220V 50/60Hz	72×72×100 mm
SG-761 SG-724 SG-714	K, J, Pt 100	1.5	Two-phase style, time proportion adjustment style	It has alarm function	Relay, Solid state relay	——	AC110/220V 50/60Hz	72×72×100 mm