

## 902 Operation Instructions

### 1. Working conditions:

- 1.1. Power supply: 230VAC±10% 50/60Hz
- 1.2. Rated current of relays: 8A/220VAC
- 1.3. Ambient temperature: -15℃~60℃ Relative humidity: 20%~85% (No condensate)
- 1.4. Storage temperature: -15℃~60℃

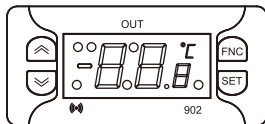
### 2. Specification:

- 2.1. Product: Length 77× Width 34.5 × Depth 58 (mm)
- 2.2. Mounting size: Length 71 × Width 29 (mm)
- 2.3. Sensor wire length: 2M (including the sensor)

### 3. Technical Parameters:

- 3.1. Temperature controlling range: -50℃ ~ 99℃
- 3.2. Display resolution: 1℃/0.1℃ (With the switch mode between integer and decimal)
- 3.3. Accuracy: NTC: ±0.5℃ (-30℃-50℃), others, ±1℃  
PTC: ±2℃ (-30℃-50℃), others, ±3℃
- 3.4. Sensor type: NTC (-50℃ ~ 120℃) PTC (-50℃ ~ 150℃)

### 4. Operation and display panel:



FNC key: Exit SET key: Set

↵ key: Up key ⇐ key: Down Key

OUT Compressor icon: During compress time delay, this icon blinks; when compressor works, this icon is constantly on;

🔊 alarm icon: When over temperature range or sensor failure, this icon is constantly on;

℃ Celsius degree icon: When Celsius degree is selected, this icon will be on.

### 5. Controller parameters and operation:

#### 5.1. Set the temperature setpoint

The step of setting the temperature is as below:

- 5.1.1. When it displays the measured temperature in the display panel, press SET key, it will display Set.
- 5.1.2. At this time, press SET key, you could view the current temperature setpoint.
- 5.1.3. Press ↵ key or ⇐ key to modify the setpoint.
- 5.1.4. Press FNC key, it will display the measured temperature, and exit from the temperature setting.

#### 5.2. Parameter setting

902 has classified all parameters into four folders according to the objects and functions: CP、diS、CnF、FPPr, the method to enter the folder is as below:

5.2.1. When it displays the measured temperature in the display panel, press SET key for at least five seconds, it will display the first parameter folder code CP.

5.2.2. At this time, press SET key, it enters the parameter folder CP, and it will display the first parameter diF.

5.2.3. Press ↵ key or ⇐ key, it will display all parameters under the folder of CP in circulation.

5.2.4. If need to view or modify one of the parameters, when it displays the parameter code in the display panel, press SET key to view the parameter setpoint, and then press ↵ key or ⇐ key to modify the setpoint.

5.2.5. Press FNC key, it will exit from the parameter folder of CP, and it will restore to display the parameter CP. Press FNC, it will restore to display the measured temperature value and exit from parameter setting.

#### 5.3. Enter the parameter folders of diS、CnF、FPPr:

5.3.1. When it displays the first parameter folder code CP, press ↵ key or ⇐ key, it will display each parameter folder code in circulation.

5.3.2. Select the desired parameter folder code and press SET key, and it will display first parameter of the current parameter folder.

5.3.3. The method to view, modify and exit the parameter value will be the same as above.

### 6. Parameter table:

Parameter code	Description	Set range	Default value	Unit
Parameter folder CP				
diF	Temperature differential	1~30	2	℃/°F
HSE	Highest temperature setting value	LSE~99	99	℃/°F
LSE	Lowest temperature setting value	-55~HSE	-55	℃/°F
HC	Output mode selection H=heating, C=cooling	H/C	H	/
Ont	When temperature sensor failure, compressor works in duty cycle mode: Ont: continuous working time; OFt: Stop working time Ont=0, OFt=1: output: not work;	0~250	0	Minute
OFt	Ont=1, OFt=0: output: work all the time; Ont#0, OFt#0: output: work according to the set time of Ont and OFt in cycle (First work then stop)	0~250	1	Minute
dOn	Compressor startup time delay	0~250	0	Second
dOF	The time interval between the switch off and the successive switch on of compressor	0~250	0	Minute
dbi	The time interval between two successive switch-on of compressor	0~250	0	Minute
OdO	Time delay after the switch-on the instrument	0~250	0	Minute
Parameter folder diS				
LOC	SET Setpoint modification keyboard locking y=lock, n=unlock If LOC=y, press ↵ key or ⇐ key, it will not modify the setpoint Of Set.	n/y	n	/
PA1	User password	0~250	0	/
ndt	Decimal point display, y = yes; n = no.	n/Y	n	/
CA1	Temperature calibration	-12~12	0	℃/°F
dro	Temperature display readout unit 0=C, 1=°F	0/1	0	/
Parameter folder CnF				
H00	Sensor type selection 0=PTC, 1=NTC	0/1	1	/
rEL	Device version, read only parameter	/	/	/
tAb	Table of parameter, read only parameter	/	/	/
Parameter folder FPPr				
UL	Upload the data from the instrument to copy card	/	/	/
dL	Download the data from copy card to the instrument	/	/	/

Note: SET (setpoint) is between the lowest set point LSE and highest setpoint HSE. For example, if the current HSE is "10", then Setpoint could not be more than 10. If the current LSE is "-10", then Setpoint could be less than -10.

