



# IDP1603D Digital Temperature Controller Instruction Manual

[Home](#) » [idp](#) » IDP1603D Digital Temperature Controller Instruction Manual 

## Contents

- 1 IDP1603D Digital Temperature Controller
- 2 Product Information
- 3 Product Usage Instructions
- 4 Installation opening size
- 5 Single output connection diagram
- 6 Menu code statement
- 7 Functional Description
- 8 Errors indications
- 9 Caution for using
- 10 Documents / Resources
  - 10.1 References
- 11 Related Posts



**IDP1603D Digital Temperature Controller**



## Product Information

- Model: IDP1603D
- Temperature Range: -30°C to 300°C / -22°F to 572°F
- Precision: 0.1°C / 1°C
- Installation Opening Size: 12mm
- Input: 24V
- Relay: 5A
- Alarm Tone: Yes
- Load and Temperature Control Use Same Power
- Power Lock: 34
- ON Sensor: 56
- Load Power: Temperature Power Input
- Load and Temperature Control Use Different Power
- Load Power: 12V
- Power Lock: 34
- ON Sensor: 56

## Product Usage Instructions

1. To adjust the temperature settings, press the SET and UP keys simultaneously and hold for three seconds to enter the System Advanced menu.
2. Use the UP or DOWN keys to select the desired adjustment menu.
3. Press the SET key once to enter the appropriate parameter settings.
4. Use the UP or DOWN keys to adjust the parameters that need to be modified.
5. After making the necessary adjustments, press the RST key to exit.
6. To switch between Celsius and Fahrenheit, use the CODE C/F function. Press SET and UP keys simultaneously and hold for three seconds to enter the System Advanced menu, then use the UP or DOWN

keys to select the CODE C/F menu and press SET key once to toggle between Celsius (CCelsius) and Fahrenheit (FFahrenheit).

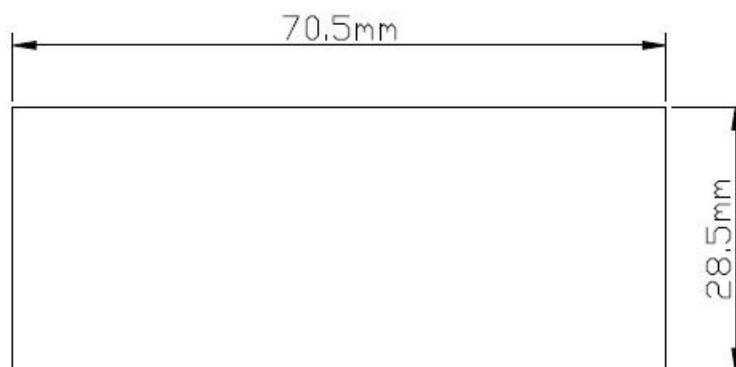
7. For temperature calibration, use the CA function. Press SET and UP keys simultaneously and hold for three seconds to enter the System Advanced menu, then use the UP or DOWN keys to select the CA menu and press SET key once to enter the appropriate temperature calibration settings.
8. For high and low temperature alarm settings, use the AH and AL functions respectively. Press SET and UP keys simultaneously and hold for three seconds to enter the System Advanced menu, then use the UP or DOWN keys to select either AH or AL menu and press SET key once to enter the appropriate alarm temperature settings.
9. For timer off settings, use the AT function. Press SET and UP keys simultaneously and hold for three seconds to enter the System Advanced menu, then use the UP or DOWN keys to select the AT menu and press SET key once to enter the appropriate timer off settings.
10. Error Indications:
  - If the sensor is disconnected, the screen will display “EEE”.
  - If the sensor detects a temperature below the lowest detectable temperature, the screen will display “LLL”.
  - If the sensor detects a temperature higher than the maximum detectable temperature, the screen will display “HHH”.

#### **Caution for Using:**

Please handle the product with care and follow these precautions:

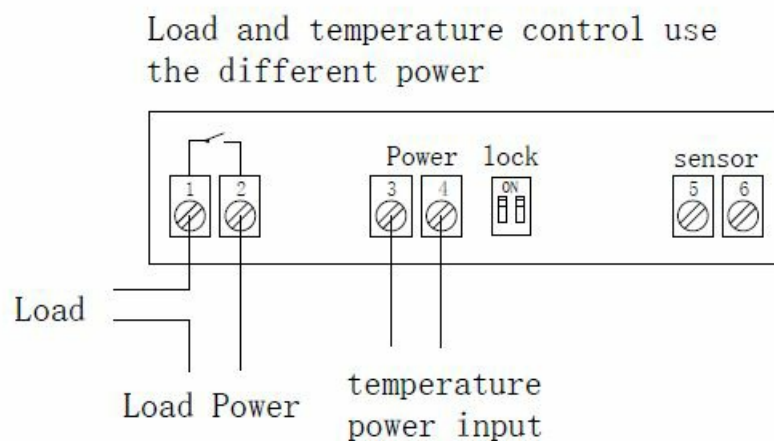
- Ensure proper installation opening size of 12mm.
- Use only 24V input.
- Do not exceed the relay capacity of 5A.
- Be cautious of the alarm tone.
- Follow the appropriate power lock settings.
- Ensure proper sensor connection and placement.
- Follow the instructions for load and temperature control power usage.

#### **Installation opening size**



Model	Temp Range	Precis i on	C/F Switch	Input	Relay	Alarm
IDP1603D	-30°C 300°C/ -22°F 572°F	0.1/1C	YES	24V	5A	Tone

### Single output connection diagram



### Menu code statement

Symbol	Details	Remark
HC	Heating / cooling	H חימום C קירור
d	Hysteresis	דלתא
LS	The minimum set limit	מומלץ לא לשנות
HS	The maximum set limit	מומלץ לא לשנות
CA	Temperature calibration	כיול טמפרטורה
P7	Delay time	דחיית הפעלה בדקות
AH	High temperature alarm settings	+ אזעקת מכשיר
AL	low temperature alarm settings	- אזעקת מכשיר
AT	Timer off	דקות

Press SET and UP key and hold on for three seconds to enter the System Advanced menu settings, press the ▲ or ▼ key to select the adjustment menu, press SET key once to enter the appropriate parameter settings, press ▲ or ▼ to adjust the parameters needed to be modified. After being adjusted, press the RST key to exit,

### Functional Description

CODE	Functional Description	RE
C/F	Celsius, Fahrenheit selection	C Celsius F Fahrenheit
S7	Conditioning step	01 Conditioning step 0.1 Degree 10 Conditioning step 0.5 Degree
DL	Timer off	ON Open OFF close Some models do not have this option
U	Timing mode	OFF Thermostat starts after ON Start time after startup Some models do not have this option)


## Errors indications

1. When the sensor disconnected, the screen displays EEE
2. When the sensor detects the temperature is below the lowest temperature that could be detected, the screen displays LLL.
3. When the sensor detects a temperature higher than the Maximum temperature that could be detected, the screen displays HHH.

## Caution for using

- Please connect the correct operating voltage, the machine normally works under the standard input voltage within range of  $\pm 10\%$ .
- The load power should not exceed the maximum thermostat control power, when exceeding please connect external AC contactor.
- Please connect the power load correctly and the sensor or it will damage the thermostat when connected the wrong line .
- Please do not put the sensor lines and power lines in parallel, power line noise affects the accuracy of the measurement

## Documents / Resources

	<p><a href="#">IDP IDP1603D Digital Temperature Controller</a> [pdf] Instruction Manual</p> <p>IDP1603D Digital Temperature Controller, IDP1603D, Digital Temperature Controller, Temperature Controller, Controller</p>
---	--

References

- [IDP | x x™, x “ x™, x x™ xž x x | x “ x™ x— x™ x” x x™, x ‘ x§ x” x” x xª x§ x© x x” xª | IDP](#)

Manuals+.