

## SM-FP.55T 6000 Freeze Thermostat

### Özellikler

- Freeze thermostat used to prevent damage to water coils in ventilation and air conditioning systems.
- -30°C...+15°C
- Manual or automatic reset
- Protection class IP30



### Use

Manual and automatic resettable frost thermostat FP.55T is used to prevent frost damage on the water coils used in ventilation and air conditioning systems. It can be used to start the operation of functions such as stopping the fan, closing the outdoor air damper, opening the heating valve 100%, turning off the cooling unit, and operating a visual or audible frost alarm as frost protection.

### Usage Notes

Please read the document carefully. FP.55T frost thermostats are designed and manufactured in accordance with safety rules. Safety warnings must be observed to prevent injury and property damage.

### Models

Models	Reset Type	Capillary Length
FPM55T	Manual Reset	6000mm
FPA55T	Automatic Reset	6000mm

### Package Included

- 1 pcs Freezing Thermostat
- 1 set of Capillary mounting apparatus

### Technical Features

Manual Reset: The thermostat is reactivated after manually pressing the reset button.

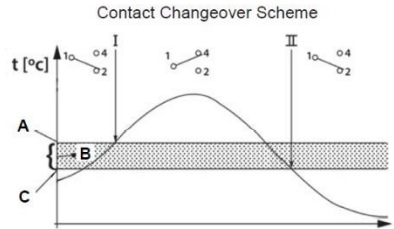
Automatic Reset: The thermostat automatically resets and activates by itself.

Set Temperature Setting Range	-30°C...+15°C	Protection Class	IP30
Working Environment	Air	Conformity	CE
Sensor Type	Copper Capillary		

### Working Principle

When the temperature rises above the set value;

- In an automatic freeze thermostat, contacts 1–4 are connected and 1-2 are disconnected (point I).
- In manual frost thermostat, after pressing the reset button, contacts 1–4 are connected and 1-2 are disconnected (point I).
- When the temperature drops by the setpoint and diff, the contacts switch from connection 1-4 to connection 1-2 (point II).



A: Setpoint

B: Differential

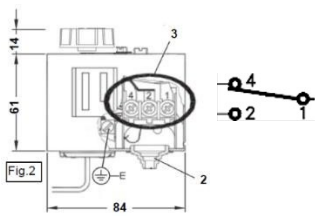
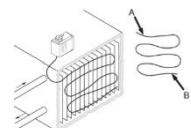
C: Setpoint minus differential

### Mounting Instructions

General safety requirements must be followed in the following cases:

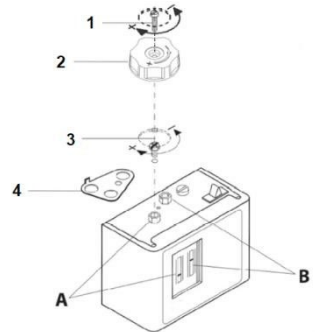
- Installation should only be done by technical personnel.
- Make the mounting and set value settings when there is no electrical connection.

<p><math>t_2 \geq t_1 + 2^{\circ}\text{C} (3.5^{\circ}\text{F})</math></p>	<p>The ambient temperature of the frost thermostat must be at least 2 °C above the preset set point.</p>
	<p>The frost thermostat should be installed in a place where the cable connection and capillary can wrap the heat exchanger properly.</p>
<p>Fig.1 44</p>	<p>After unscrewing the number 1 screws, pull the front cover off.</p>

	<p>Insert the cable into the frost thermostat at the cable entry and make electrical connections. Attach the front cover and fix it by inserting the screws.</p>
	<p>Use corner plastics when assembling the capillary to the heat exchanger.</p>

### Temperature Setting

- To change the setpoint, loosen and remove screw 1 with a flathead screwdriver.
- Pull out part 2 as well.
- Then lift lock plate 4 upwards and remove it.
- Turn the control knob A to change the temperature set value, meanwhile, you can see the change in the RANGE section of the mechanical indicator.
- Turn the B control knob to change the DIF value. You can see the change in the mechanical gauge.



### Mounting Recommendations

In long heat exchangers, sometimes a single frost thermostat is not enough. In cases where more than one freezing thermostat is used, a set value must be entered for each thermostat.

### Product Disposal

According to EUROPEAN DIRECTIVE 2012/19/EU, the device is considered a disposable electronic device. The device must be disposed of through the disposal channels provided for this purpose.

### Installation Notes



Security Advice ;

- Installation and operation of electrical equipment should only be done by qualified technicians. These systems should never be used in applications that directly or indirectly affect human health, life safety or harm people or animals.

Rules to Follow ;

- Follow the general regulations for engineering and application.
- All relevant national and high voltage regulations
- Specific regulations of other countries
- Country specific regulations
- Regulations of local electricity supplier authorities
- Schematics, cable lists, records, specifications and regulations from the customer or the project responsible engineering firm.
- Third party features, e.g., general contractors or builders

### Dimensions (mm)

