

TY6800Z, TTY6800Z

Thermostats with Remote Sensor

The TY6800Z and TTY6800Z are thermostats with a remote sensor that can be inserted into an air duct or into liquid in a tank or pipe. These devices automatically control solenoid valves, motor valves, electric heaters, compressor motors for air conditioning equipment or heating/cooling equipment, etc.



Specifications

Model		TY6800Z	TTY6800Z
Type		2-position control	2-position 2-step control
Differential		Adjustable between approx. 2°C to 6°C	Fixed at approx. 1.7°C. Adjustable approx. from 1.7°C to 5.6°C between the 2 switches.
Contact rating (motor load)	Full load	120Vac: 8A. 240Vac: 5.1A.	
	Locked rotor	120Vac: 48A. 240Vac: 30.6A.	
Switch operation	On temp. rise	<ul style="list-style-type: none"> • Contact between terminals R and B opens. • Contact between terminals R and W closes. 	Switch 1: <ul style="list-style-type: none"> • Contact between terminals R and B opens. • Contact between terminals R and W closes.
	On further temp. rise	—	Switch 2: <ul style="list-style-type: none"> • Contact between terminals R and B opens. • Contact between terminals R and W closes.
	On temp. drop	<ul style="list-style-type: none"> • Contact between terminals R and B closes. • Contact between terminals R and W opens. 	Switch 2: <ul style="list-style-type: none"> • Contact between terminals R and B closes. • Contact between terminals R and W opens.
	On further temp. drop	—	Switch 1: <ul style="list-style-type: none"> • Contact between terminals R and B closes. • Contact between terminals R and W opens.
Temperature sensor	Size	12 dia. x 130mm max.	
	Material	Copper	
	Allowable pressure	343kPa max. (without auxiliary part)	
	Allowable temperature	-40°C min.	
Capillary tube		Material: copper	
Operating conditions		0°C to 52°C, 90% RH or less (no condensation allowed)	
Transport/storage conditions		-20°C to 60°C, 90% RH or less (no condensation allowed)	
Installation		Mounting holes on rear of case	
Accessories for main unit		3 round machine screws (M4, 12mm long)	
Installation		3 hexagonal nuts (M4)	
Mass		0.45kg	0.5kg

Selection Guide

I II III Example: TY6800Z2000

Segment	Model No. selection						Description	
I	Basic No.	TY6800Z	↓	↓	—	—	2-position control	
		TTY6800Z	—	—	↓	↓	2-position 2-step control	
II	Temperature setting range*						Temp. setting range (°C)	Allowable max. temp. of temp. sensor (°C)
		20	○	○	○	○	-15 to +45	55
		30	○	○	○	—	15 to 75	90
		40	○	○	—	—	65 to 125	138
III	Capillary length	00	○	—	○	—	1.5m	
		10	—	○	—	○	6.0m	

* A circle (○) denotes availability.

*Note: Set point of the TY6800Z is the higher limit of the differential.

Set point of the TTY6800Z is the higher limit of the right switch (the one operated first by temperature rise).

Accessories (sold separately)

Model No.	Description
112624AA-J	Immersion well (R 1/2", SUS304)
83165370-001	Pressure fitting
DY3002A1001	Temperature sensor holder
Q615A1004	Waterproof enclosure

Dimensions

(Unit: mm)

