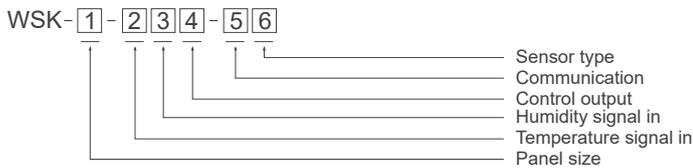# WSK SERIES CABINET THERMOSTAT

▌ Introduction

WSK series cabinet thermostat is a measurement device used on temperature and humidity control. the humidity control module is integrated in the system, greatly improving the suitability of the equipment, obtaining the temperature and humidity change from the sensor and sending the measured data to the electronic processor. The output device will then control the temperature variation within a specific range.

WSK series cabinet thermostat using load control relay output, has fast output response, accurate PID parameter auto-tuning, support, Modbus communication protocol and is built-in with various output types, allowing different systems to reach a stable control status very quickly, can be used in the worst environment for long-term use, applied to the various occasion which need temperature and humidity control.

▌ Main Features

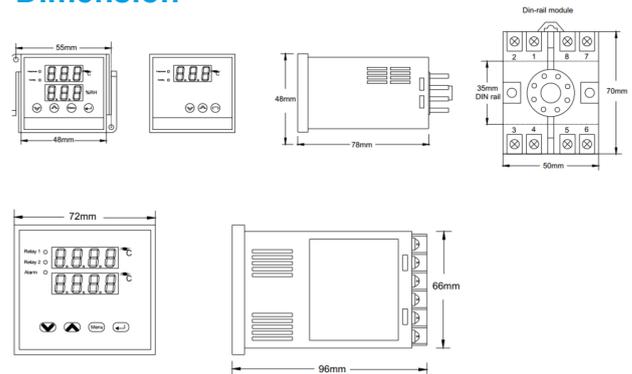- 3 digital or 4 digital LED screens.
- Built-in digital filter reduces interfereence.
- RS485 MODBUS RTU Communication .
- Standard panel size 48x48mm / 72x72mm.
- Optional 35mm DIN rail mounting (only 48X48mm mode).
- Heat/Fan control mode free to the configuration.
- Sensor length max 10 meters (default 3 meters).
- Accuracy temperature within 1°C & humidity within 5%.
- Support multi sensor input (K, S, T, E, J, B, N, CU50, PT100).

▌ Ordering Information

WSK- 1 - 2 3 4 - 5 6

- Sensor type
- Communication
- Control output
- Humidity signal in
- Temperature signal in
- Panel size

Num.	Code	Description
1	Blank	Standard 48(W) x 48(H)mm
	72	72(W) x 72(H)mm
2	W1	One channel temperature sensor input
	W2	Two channels temperature sensor input
3	S1	One channel humidity sensor input
	S2	Two channels humidity sensor input
4	K1	One channel output
	K2	Two channels output
5	Blank	Without this function
	R	One channel RS-485 communication port
6	Blank	Default select from"Related Accessories"
	T	Thermocouple (-K,-J,-T,-E,-N,-R,-S,-B,-L,-U,-YXK)
	P	Platinum RTD(-PT100,-PT1000)
	L	Linear signal (0~5V,0~10V,0~20mA,4~20mA,0~50mV)

▌ Dimension

▌ Related Accessories

Model: WSCP-15
- Temperature range: -50~100°C, accuracy ±1%
- Humidity range: 20~95%,accuracy ±5%

Model: WSCP-23
- Temperature range: -20~60°C, accuracy ±1%
- Humidity range: 20~95%, accuracy±5%

Model: WSCP-35
- Temperature range: -40~125°C, accuracy ±0.3%
- Humidity range : 0~100%, accuracy ±3%

Technical Characteristics

Basic parameters	
Power supply	85V~265VAC/DC 50Hz,optional 24/48DC
Power consumption	≤ 5VA
Dimension (W*H)	48*48mm / 72*72mm
Input	
Temperature	-40~99°C
Temp.sensor accuracy	+/-0.2 °C
Humidity	1~98%RH
Hum.sensor accuracy	+/-3.0%RH
Cable length	2 m (3m optional)
Sampling rate	400 m sec/per scan
Output	
Relay output	2-chanels, 250VAC, 5A 1PH, resistive load
RS485 communication	MODBUS RTU, 4800/9600bauds
Display	
Waterproof degree	IP40
Display	2-line x 3 character 7-segment LED display
Keypads	Menu, Enter, Increase, Decrease
Environment	
Protection	Anti-containing acid, alkali, salt gas
Temperature	-10~55°C
Relative humidity	<93%, Non-condensing
Storage environment	-10~55°C ; 20 ~ 93%RH ; Noncondensing