

Applications of the temperature controller from Matsuo (X·X̄·Y·Ȳ)

Communication purposes

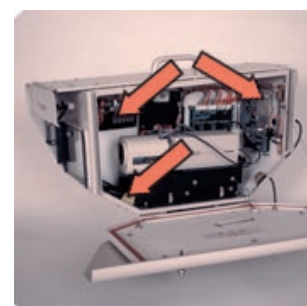
Temperature control inside the cabinets of mobile phone communication base stations

Components which can regulate the temperature of a heater for anti condensation in the periphery of the power supply inside the cabinets of NTT/FOMA base stations, instead of the thermistor controller, are the temperature powerful sensors MQT8K 45YB and MQT8K 60XC from Matsuo, the supplier of thermostats for temperature control. Because of their compact design, they are controllers that can be housed in a small space. They can easily be used as a temperature controller as a substitute for the thermistor controller.



Temperature control inside the housing of outdoor monitoring cameras (CCTVs)

Temperature control can be made simpler and at a lower cost than the thermistor controller. The temperature powerful sensor (TPS) from Matsuo, with its long life and small differential features, is effectively used for defogging, anti-freezing and the prevention of temperature rises for outdoor monitoring cameras. The MQT8HT 45XC is used to control the temperature of the heater to within a range of 38°C~45°C for defogging of the camera lens, and the MQT8KT 7XB is used to control the temperature of the heater to be within a range of 2°C~7°C for anti-freezing inside the housing in winter time. On the other hand, the MQT8KT 30YB is used to control the temperature of the heat dissipation fan to be within a range of 25°C~30°C to prevent temperature rises inside the housing in summer time. As such, the temperature powerful sensor is being used for various applications as the thermostat for temperature control.



Temperature control of control panels

The temperature power sensor (TPS) from Matsuo, having a long life and small differential features and which can be used as a substitute for the thermistor controller, is used to control the fan inside the cabinet of control panels, to control the heater for anti-condensation inside the cabinet, and for anti-freezing in the case of an outdoor installation. As an application example, multiple temperature powerful sensors (TPS, 32.5°C, 35°C and 37°C types) can be installed at the same location for automatic fan speed changeover between strong, moderate and soft.

A control panel is a panel where control switches and meters are collectively installed for the remote control of machines and equipment.

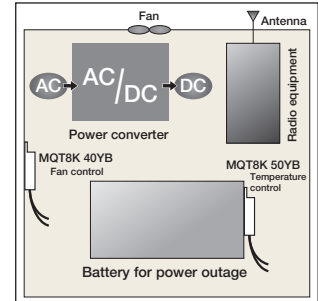


Applications of the temperature controller from Matsuo (X·X̄·Y·Ȳ)

Communication purposes

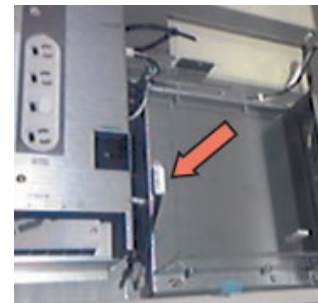
Temperature control inside the cabinet of mobile phone relay stations for NTT, au, KDDI and SoftBank

The temperature powerful sensor (TPS) from Matsuo is used to control the fans in the periphery of the power supply and as overcharge protection of batteries for power outages inside the mobile phone relay stations for NTT, au, KDDI and SoftBank. The MQT8K 40YB is used for fan control and the MQT8K 50YB is used for the batteries for power outages. Because of their compact design, they are controllers that can be housed in a small space.



Temperature control inside VDSL cabinets for condominiums

The temperature powerful sensor from Matsuo, the supplier of thermostats for temperature control, is used to control the fan inside VDSL cabinets which convert a fiber optics signal to an analog signal and then distribute it to individual homes via telephone lines. The MQT8K 38YB1.5 is installed inside the cabinet to turn the fan ON when the temperature reaches 38°C on a temperature rises, and to turn the fan OFF when the temperature falls around 34°C. Because of its compact design, it is a controller which can be housed in a small space. It can be easily used as a temperature controller in place of a thermistor controller.



Heater control of electronic coolers for control panels and information communication cabinets

The temperature powerful sensor (TPS) from Matsuo, the supplier of thermostats for temperature control, is used to evaporate the drain water accumulated inside electronic coolers which are used for the prevention of condensation in control panels and information communication cabinets. The MQT8K 55XC is installed inside the unit to be OFF when the temperature reaches 55°C on a temperature rises and controls the heater. Because of its compact design, it is a controller which can be housed in a small space. It can be easily used as a temperature controller in place of a thermistor controller.



Applications of the temperature controller from Matsuo (X· \bar{X} ·Y· \bar{Y})

Communication purposes

Fan control / anti-freezing control of security gates for outdoor access control

The temperature powerful sensors (TPS) are used as the thermostat for temperature control to control the heat dissipation fans of the power supply peripheral equipment inside access security gates and to control the heater for the anti-freezing of power supply peripheral equipment inside the equipment in cold districts. For fan control, the MQT8KT 35YB is set to turn the fan ON when the temperature reaches 35°C on a temperature rises, and for the antifreeze application, the MQT8K 5X(bar)C is set to turn the heater ON when the temperature falls to 5°C and to turn it OFF when the temperature goes up 10°C. Furthermore, the system has a fail safe design where the MQT8K -5X(bar)C turns an alarm ON when the temperature falls to -5°C as a countermeasure for abnormal situations.

