

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

Medical purposes

Temperature controller for thermotherapy mats

Thermotherapy mats are used for the treatment of stiff shoulders and muscle aches. And the temperature powerful sensor from Matsuo is used in these products as a thermostat for temperature control, maintaining the temperature at a certain level. By attaching the MQT8H 60XC to the far infrared ceramic heater and making a series connection to the heater power line, the temperature is maintained within a range of 53°C~60°C. Because of its thin design, having a thickness of only 6.4mm, the temperature powerful sensor nicely fits these products. As such, the temperature can be easily controlled.



Temperature control of the diffusion pump (vacuum pump) for electron microscopes

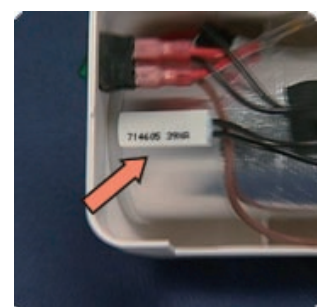
Analytical scanning electron microscopes can be used for applications from monitoring to elemental analyses easily by a simple mouse operation to meet the demands in a wide range of research activities and industrial applications. The temperature powerful sensor (TPS) from Matsuo, the supplier of thermostats for temperature control, is used on the diffusion pump which makes the specimen chamber vacuum.

In order to detect a rise in temperature, the contact of the MQT8K 60XD will switch OFF when the temperature reaches 60°C and then switch ON again when the temperature falls to around 50°C. The temperature powerful sensor, with its long life and small differential, is useful for temperature control of the diffusion pump (vacuum pump) used in electron microscopes.



Temperature controller for the gel warmer for ultrasonic diagnostic systems

When the gel for ultrasonic diagnostic systems, not only for ultrasonic inspections, but also for fetal monitoring, is used, the ultrasonic gel is warmed to approximately 40°C so that the patient will not have to feel cold discomfort when the gel touches the patient's body. The temperature powerful sensor (TPS) from Matsuo, the supplier of thermostats for temperature control, helps to maintain the gel temperature at a certain level. The MQT8H 39XA switches OFF when the temperature reaches 39 and switches ON again at approximately 36°C. The temperature powerful sensor, with its small differential, is useful in controlling the temperature accurately.

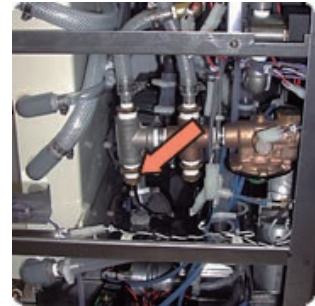


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Temperature controller for the ozone water for endoscope cleaners

The temperature powerful sensor (TPS) from Matsuo, the supplier of thermostats for temperature control, is used for water temperature control in the ozone water generator for endoscope cleaners. The MQT81P 23YB helps to maintain the water temperature within the 18°C~23°C range so that fresh ozone water can be generated at each cleaning time. The temperature powerful sensor, with its long life and small differential contributes to temperature control.



Temperature control of the rotor section of micro-cooled centrifuges

The temperature powerful sensor (TPS) from Matsuo, the supplier of thermostats for temperature control, is used for the temperature control of rotors in micro-cooled centrifuges. The MQT8K K45XB installed inside the equipment helps to stop the rotation when the rotor chamber temperature reaches an abnormal level of 45°C. This highly accurate temperature powerful sensor from Matsuo can be effectively used for controlling and protecting based on its small differential and long life features.

