

Sensors

Thermostat • Infrared Detectors • Air Pressure Sensor Pressure Sensor • Humidity Type Sensor



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Temperature Power Sensor

(Controller)

The TPS enables the temperature control of precision measurement equipment and electronic equipment, which is the role of the electronic controller, via the bimetal. Furthermore, we have attained ultra high temperature control at a 400 degree level, which is the first time in the world.

2 Amp. series for ordinary temperatures (-10C ~ 110C) LIFE CYCLE 100K~1000K Times **Rating & Characteristics Feature** Type MQT8K Operating Voltage: AC125V, DC12V/2A; Standard model of the 2 Amp. series with AC250V, DC24V/1.3A mounting holes. With a 150 mm lead Maximum operating voltage: Size: 44 x 12.5 x 6.4 mm AC250V max., DC48V max Temperature setting range : - 10°C~110°C MQT8KT With a #110 tab. Differential: A rank(3±1), B rank(4.5±1.5), A receptacle with two holes (female housing) is C rank(6.5±1.5), D rank(10±2) provided. Receptacles can be used separately for Temperature setting tolerance : each terminal ±3 when the temperature is below 50°C Size: 44 x 12.5 x 6.4 mm MQT11H 11k consist of built-in fuse for dual safety. Size: 34.5 x 18.2 x 6.4 mm

5 Amp. series for ordinary temperatures (-10C ~ 110C)

LIFE CYCLE 100K~1000K Times

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Туре	Rating & Characteristics	Feature
M3	Operating Voltage : AC125V, DC12V/5A	Standard 5 Amp. Series with 2 mounting holes. With a 150 mm lead Size: 68 x 15.5 x 10.8 mm
M2	C rank(6.5±1.5), D rank(10±2) Temperature setting tolerance: ±3 when the temperature is below 50°C	Thin version of the 5 Amp. series. The differential is approximately 10°C. Long life model. Without a mounting hole. With a 150 mm lead Size: 45.5 x 16 x 7.5 mm
MQT5S		Sealed in a vinyl tube A back contact model (with 3 lead wires) is also available Size: 100 x 42 x 19 mm

Type М2Н

Rating & Characteristics

Feature

Same as 5 Amp. series

This is the high temperature type of the M series. It covers a range 120°C~160°C. It can be easily distinguished from other M series products by its brown case.

Remote Control Thermostat (Variable Thermostat)

LIFE CYCLE 100K~1000K Times

Type

Rating & Characteristics

Feature

MQT11LV



Operating Voltage: AC125V, DC12V/2A; AC250V, DC24V/1.3A

Maximum operating voltage:

AC250V max., DC48V max

Temperature setting range : - 10°C~110°C Differential: A rank(3±1), B rank(4.5±1.5),

C rank(6.5±1.5), D rank (10±2)

Temperature setting tolerance :

±3 when the temperature is below 50°C

This is a variable type of the 2 Amp. standard model MQT8

Size:35 x 17 x 6 mm

MQT6V



Variable type of the 5 Amp. model

Size: 80 x 16.5 x 14 mm

Liquid Temperature Control Thermostat

LIFE CYCLE 100K~1000K Times

Type

Rating & Characteristics

MQT81P 2 Amp. Type



Operating Voltage: AC125V, DC12V/2A;

AC250V, DC24V/1.3A

Maximum operating voltage:

AC250V max., DC48V max Temperature setting range : - 10°C~110°C Differential: A rank(3±1), B rank(4.5±1.5),

C rank(6.5±1.5), D rank(10±2)

Temperature setting tolerance:

Feature

It is a completely sealed thermostat which is screwed into a threaded hole on the side of a liquid tank. While the inside of the tank is waterproof, the lead section is not.

For a PT3/8" screw. The body is made of brass and 304 stainless steel.

Size: 50 mm x 13Ø

MQT83P 2 Amp. Type



±3 when the temperature is below 50°C

It is a type that is inserted from the top of the tank.

The body is made of 304 stainless steel Size: (L) mm x 14Ø

MQT72P 5 Amp. Type



The same 5 Amp.

It comes with a DIN connector which is screwed into a threaded hole on the side of a liquid tank. For a PT3/4" screw. The body is made of brass

Size: 78.6 mm x 21.5Ø



Disk Type Thermostat

(Protectors)

Obtaining very high quality raw materials to ensure the best product for your temperature control needs.

Core Products	LIFE CYC	CLE 100K Times
Туре	Rating & Characteristics	Size
03 Type Automatic & Typical	Contact N:125 VAC 15A/250 VAC 10A 03(Black/Phenol) Max. 150°C Contact P:250 VAC 0.2A/42 VDC 0.2A 03T (Green/Polyester) Max. 150°C for trucking 21(Gray/Vylograss) Max.180°C Temperature range: Max. 260°C 52 (White/Ceramic) Max. 260°C UL/CSA/VDE/BEAB/CMJ	Height: 12 mm (0.47") Dia: 16 mm (0.630")
05 Type Manual Reset	Contact N:125 VAC 15A/250 VAC 10A 05(Black/Phenol) Max. 150°C Contact P:250 VAC 0.2A/42 VDC 0.2A 15(White / Ceramic) Max. 230°C 25(Green/Polyester) Max.150°C Temperature range: Max. 230°C for trucking UL/CSA/VDE/ CMJ 75(Gray/Vylograss) Max.180°C	Height: 16.1 mm Dia: 20 mm
43 Type 3/4 Inch Thermostat	250 VAC 25A & 45A /480 VAC 13A Temperature range:Max. 150°C UL/CSA/VDE Automatic reset & Manual reset (will be line up soon)	Height: Dia: 27 mm
SS1 Type The Thinnest Type	125 VAC 2A (3A) *Height =4 mm Temperature range: Max. 105°C UL/CSA/CMJ	Length: 27.5 mm (1.083") Height: 12 mm (0.47") Thickness: 3.4 mm (0.134")

Automatic reset/Manual reset

LIFE CYCLE 100K Times

Туре	Rating & Characteristics	Size
23 Type Manual Reset	120 VAC 15A / 250 VAC 10A Temperature range: Max. 230°C UL/VDE/CSA/CMJ Case has 4 leg (Castellated)	Height: 27.5 mm Dia: 16.2 mm

50 Type 4 Leg

Contact N: 120 VAC 15A/250 VAC 16A Contact P: 250 VAC 0.2A/42 VDC 0.2A

Temperature range: Max. 150°C

UL/CSA/VDE/CMJ

Height: 12 mm (0.47") Dia: 16 mm (0.630")

04 Type For Large Electrical Load



(Open) 250 VAC 30A (Water proof) 250 VAC 15A Temperature range: Max. 230° C SPST & SPDT (3 terminals) Automatic , Manual & Water proof

Height: 19 mm Dia: 27 mm

Water Moisture Applications

LIFE CYCLE 100K Times

Туре	Rating & Characteristics	Size
12 Type Water Proof	Contact N: 125 VAC 15A/250 VAC 8A Contact P: 125 VAC 0.1A/30 VDC 0.1A Temperature range: Max. 70°C	Height: 22 mm Dia:16 mm
60 & 61 Type Splash Proof	Contact N: 125 VAC 10A/250 VAC 7A Contact P: 250 VAC 0.2A/42 VDC 0.2A Temperature range: Max. 120°C Automatic (60) & Manual (61)	Height: 15 mm (0.59") Dia: 16 mm (0.630")
MH Type	125 VAC 3A/250 VAC 2A Temperature range: Max. 70°C UL/CSA Water Proof & Dust Proof	L W H 22 x14.5 x 6

Special Products

LIFE CYCLE 100K Times

Туре	Rating & Characteristics	Size
90T Type Thermistor Sensor	Temperature range: Max. 150°C Thermal time constant = T = about 5 seconds (on aluminum board) Ceramic case available: Max. 300°C	Height: 11.7 mm Dia: 16.7 mm
BT 1 & 2 Thin Type	250 VAC 10A Temperature range: Max. 120°C Height: 6 mm CMJ Automatic (BT1) & Manual (BT2)	L W H 20 x 17 x 6



Thermal Protectors

BR Series		LIFE CYCLE 5000 TIME
Туре	Rating & Characteristic	Size
BR-A1D	24V-DC 12A 125V-AC 12A 250V-AC 8 A Open Temperature Range (50 +/- 5 °C ~ 150 +/- 5 °C)	L W H (Common) 15+-0.4 6.5+/-0.2 3.1+/-0.1 (Enforced) 15.5+/-0.4 7.1+/-0.2 3.7+/-0.1
BR-A1	24V-DC 12A 125V-AC 12A 250V-AC 8 A Open Temperature Range (50 +/- 5 °C ~ 150 +/- 5 °C) The same A1D type	>0.4 BR-A1D 100°C
BR-B	24V-DC 12A 125V-AC 12A 250V-AC 8 A Open Temperature Range (50 +/- 5 °C ~ 150 +/- 5 °C)	Type L W H BR-B2D 15+/-0.4 7.3+/-0.2 73.9+/-0.1 BR-B3D 18.0+/-0.4 8.0+/-0.2 4.0+/-0.1 BR-B4D 21.0+/-0.4 8.0+/-0.2 4.0+/-0.1
BR-C	24V-DC 12A 125V-AC 12A 250V-AC 8 A Open Temperature Range (120 +/- 5 °C ~ 145 +/- 5 °C)	Type L W H (LINE) BR-C 32+/-2 10.8+/-0.2 7.8+/-0.2 L+/-10
DRP-A Series		

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LIFE CYCLE 6000 TIME

Туре	Rating & Characteristic		Size			
DBR-A	125V-AC 22A 250V-AC 15A Open Temperature Range (70+/-5.0°C ~ 150+/-7.0°C)	Type DBR-A	L 20.5+/-0.3	W 8.2+/-0.2	H 4.7+/-0.2	

TP-D Series

LIFE CYCLE 5000 TIME

Туре	Rating & Characteristic	Size				
17AM-D	16V-DC 20A 115V-AC 22A 250V-AC 8A Open Temperature Range (50+/-5.0°C ~ 155+/-5.0°C)	Type A B	L 26 28.8	W 8.2+/-0.1 8.2+/-0.1	H 4.7+/-0.2 4.7+/-0.2	

Infrared Detectors

(Sensor)



Pyroelectric infrared detectors are extremely sensitive to a wide range of wavelengths, from near-to far-infrared, and are suitable for a wide range of applications.

Infrared Detec	Infrared Detectors (Applications) Security devices. Automatic door switches. Temperature measurement								
SPS Standard Type	Rv	Source Voltage	Windows Material	Spectral Response	IR Receiving Electrode	Supply Voltage	Operating Temp	Storage Temp	
134 BA	1800 V/W	0.38 ~ 1.3V	Silicon 7 μm Cut-on filter	7 ~ 20 μm	Φ 1.6mm	2.0 ~ 1.0V	-20 ~ 70°C	-40 ~ 80°C	
127 BA	2000 V/W	0.38 ~ 1.3V	Silicon 7 μm Cut-on filter	7 ~ 20 μm	1.0 * 2.0 (*2) mm	2.0 ~ 1.0V	-20 ~ 70°C	-40 ~ 80°C	
221 BA	2300 V/W	0.38 ~ 1.3V	Silicon 7 μm Cut-on filter	7 ~ 20 μm	1.0 * 2.0 (*2) mm	2.0 ~ 1.0V	-20 ~ 70°C	-40 ~ 80°C	
421 BA	2200 V/W	0.3 ~ 1.7V	Silicon 7 μm Cut-on filter	7 ~ 20 μm	1.0 * 2.0 (*2) mm	1.7 ~ 15V	-20 ~ 70°C	-30 ~ 80°C	
241 EA	2200 V/W	0.38 ~ 1.3V	Silicon 5 μm Cut-on filter	5 ~ 20 μm	1.3* 1.3 (*4) mm	2.0 ~ 1.0V	-20 ~ 70°C	-40 ~ 80°C	

Flame Detectors

(Applications) Fire detection

Pyroelectric infrared detector is specially designed for flame detection and gas analysis applications.

Thermally compensated Type	Element Size	Signal Sensitivity	Noise	Source Voltage	Supply Voltage	Load Resister	Operating Temp	Storage Temp
532 CA	Φ1.6mm	typ. 4.2	Max. 170	0.38 ~ 1.3V	2.0 ~ 1.0V	10 ~ 1000 kΩ	-20 ~ 70°C	-40 ~ 80°C

Windows Material Code

A. General purpose (Silicon, AR coated windows)

B. Human body detection systems (Silicon, 7m cut-on filter)

C. Frame detection systems (Silicon, 4.3m band pass filter)

E. Human body detection systems (Silicon, 5m cut-on filter)



Others (Sensor)

CRYSTAL Type Sensor

Rating & Characteristics Feature Size Type HTS-206 (SHAKE) Crystal used to sense the change in temperature Frequency range: 40 KHz 2 mm in diameter and 6 mm in length Store temperature: -55 ~ 125°C Good linearity frequency and temperature Operating temperature: -40 ~ 85°C Low frequency (40kHz) enables low current consumption ESR: $30k\Omega$ Max Suitable for DTCXO and temperature equipment Frequency tolerance: +/- 2°C Lead (Pb) -free: Contains high melting temperature type Size: length 6.0mm pin 4.0 mm diameter 2.0 Ultra Small Package size SMD (5x 3.2 x1.3 mm)



Ultra Small Package size SMD (5x 3.2 x1.3 mm)
Hermetic sealing provides excellent sustainable environmental
Capability
High stability using vibration crystal
Clipped startup time and low power consumption with sleep
mode

Lead (Pb) –free: Lead free completely
Detection picture stabilization of DVC and DSC
Detection of moving with man machine interface

Drive frequency: 46.5 KHz & 50.3KHz

Operating temperature: -20 ~ 80°C

Operating Voltage: 3.3 V

Output current: +/-100 A

Size: length 5.0 mm (+/-0.2)

Weight 3.2 mm (+/-0.2)

High 1.3 mm (+/-0.2)

Air Pressure Module

Manual for Ultrasensitive Air Pressure Sensor

Feature Size Rating & Characteristics Type Brown (Aout): Analog output 0 ~ 2.7 Volt This module has the comparator output FD-4100 Red (-out): After the comparator works, open-drain turned to be able to do the operation on For 1 sec. Max. 100 mA confirmation by which an analog output Orange (+out): Comparator output (+) Pressurizing change is connected with LED etc. Yellow (+V):Power supply voltage (+) 2.9 ~ 15.0 Volts Module amplifies the sensor Green (GND): Ground signal of air pressure sensor FKS-111 Current consumption: Standby time 100A which detects a minute pressure change Amplification rate: (Range of adj. 400 ~ 5200 times at 2Hz) Size:35 x35 x11mm 8 grams

Pressure Sensor

Туре	Feature & Characteristic	Application
NPC-100 Blood Pressure Measurement	The NPC-100 is batch-manufactured in ceramic plate form and shipped as an intact array for easy customer automation. This assembly method draws from well-established manufacturing techniques used in the electronics industry in order to produce a quality, high volume product.	 Medical instrumentation Blood pressure measurement Infusion pumps Kidney Dialysis machines
NPC-1210 Medical Ventilators	The NPC-1210 low pressure series of solid state pressure sensors are designed to provide the same cost effective solution as NovaSensor®'s other NPC-1210 pressure ranges. Packaged in a dual-in-line configuration, this NPC-1210 series is intended for printed circuit board mounting. Optional pressure port and lead configurations give superior flexibility in low profile applications where pressure connection orientation is critical	 Ventilation Air flow monitors Process control Respirators Medical equipment

Feature & Characteristic **Type Application** • Available in Gage, Absolute, and Differential Pressure Versions • Process Control, P-to-I Converters NPH series Media Compatible with Noncorrosive Gases and Dry air Pneumatic Control Systems • Output Signal of 100mV @ 1.5mA HVAC Controls • Biomedical: Infusion Pumps, • Thermal Accuracy FSO 0.5% Typical Overpressure Capability to 5 Times Maximum Rated Pressure Sphygmomanometers, Respirators • Aerospace: Altimeters, Barometers, • Three Standard Ranges: 0–10" H2O, 0–1 psi, and 0–5psi Cabin Pressure Sensors • Nonlinearity 0.05% FSO Typical Computer Peripherals • Standard 3/16" OD Pressure Port • Ceramic Substrate with Temperature Compensation Resistors

Medium Air Pressure Sensor

0-15" H2O,0-30 psi,and 0-100 psi

Туре	Feature & Characteristic	Application
NPH series	 Available in Gage, Absolute, and Differential Pressure Versions Media Compatible with Noncorrosive Gases and Dry air Output Signal of 100mV @ 1.5mA Thermal Accuracy FSO 0.4% Typical Overpressure Capability to 4 Times Maximum Rated Pressure Three Standard Ranges: 0–15, 0–30,and 0–100 psi Nonlinearity 0.05% FSO Typical Standard 3/16" OD Pressure Port Ceramic Substrate with Temperature Compensation Resistors 	 Process Control, P-to-I Converters Pneumatic Control Systems HVAC Controls Biomedical: Infusion Pumps, Sphygmomanometers, Respirators Aerospace: Altimeters, Barometers, Cabin Pressure Sensors Computer Peripherals

Humidity Sensor

Туре	Rating & Characteristic	Application
HS-12	 Good long term reliability. Cost effective performance. HS12P water resistive 	Typical applications include humidity monitors, humidity controllers, air conditioners, humidifiers, dehumidifiers, automatic ventilation.
HS-15	 Good long term reliability. Cost effective performance. HS15P water resistive 	Typical applications include humidity monitors, humidity controllers, air conditioners, humidifiers, dehumidifiers, automatic ventilation.
RH SENSOR	 Interchangeability better than 3% Survives 100% RH Temperature coefficient less than 0.05% RH/°F Linearity better than +/-2% Innovative packaging for improved performance Economical Alternative mounting configurations Calibrated or uncalibrated versions 	Typical applications include humidity monitors, humidity controllers, air conditioners, humidifiers, dehumidifiers, automatic ventilation.



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