

Ultra high purity temperature switch

Model : UBS100

Spec. sheet no. UD01-01

Service intended

The UBS100 is designed with a non-sparking explosion-proof structure, making it suitable for installation in areas dealing with gases and vapors, such as semiconductor manufacturing facilities, general workplaces, and plants. It is constructed with a stainless steel exterior to ensure durability even in harsh environments, and it uses coated cables to enhance quality.

The device operates on the principle of a bimetal strip, which utilizes the difference in thermal expansion coefficients between two metals. As the metals expand or contract with temperature changes, the bimetal strip activates the contact points. When the ambient temperature reaches a certain level, the built-in contact is shorted, sending a signal.



Permissible temperature range

-20 ~ 115 °C

Enclosure rating

IP65

Explosion protection

KCs Ex nC IIC T6...T4

Standard features

Mechanical

Material

316L SS

Electrical

Electrical rating

MAX 250Vac/5A, 125Vac/7A, 60Vdc/2.2A

1. Base model

UBS100 Ultra high purity temperature switch

2. Case size (mm)

A 12x7x35

B 8x8x35

3. Ambient temperature (°C)

T6 $-20 \leq T_{amb} \leq 70$ °C

T5 $-20 \leq T_{amb} \leq 85$ °C

T4 $-20 \leq T_{amb} \leq 115$ °C

4. Switching temperature (°C)

050 50 (Min. 50)

055 55

060 60

070 70 (T6: Max. 70)

085 85 (T5: Max. 85)

110 110

115 115 (T4: Max. 115)

※ The minimum set temperature of the switch is 50 °C

※ The switch cannot be set to a temperature higher than the ambient temperature.

5. Cable length (mm)

1 1000

2 2000

3 3000

4 4000

5 5000

Z Other

Sample ordering code

1	2	3	4	5
UBS100	A	T6	050	1



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