

Model ACS II series

Temperature Calibration System

Model ACS II series products are temperature calibration systems for surface temperature and internal temperature measuring devices.

Temperatures can be set across a wide range, from room temperature to 500°C. These calibration systems are designed for calibration or to check temperature measuring probes.

ACS II 系列

ACS II 系列产品是表面温度、内部温度的标准校正器。从室温到500°C之间的温度可以自由设定，可用于温度传感器的校正、检测等用途。

ACS II-2000

For surface temperature max. 500°C



※Please specify a power supply voltage when ordering (choose from 100 VAC, 115 VAC, or 230 VAC).

ACS II-4000

For surface and internal temperature max. 500°C



Specifications 规格

OVERALL ACCURACY

Model	ACS II-1000	ACS II-2000	ACS II-3000	ACS II-4000	
Calibration object	Surface temperature	Surface temperature	Internal temperature	Surface temperature	Internal temperature
Range	30~100°C	+0.5 / -0.7°C	+0.5 / -0.7°C	±0.26°C	±0.26°C
	100~200°C	+0.5 / -1.1°C	+0.5 / -1.1°C	±0.32°C	±0.32°C
	100~200°C	+0.5 / -1.5°C	+0.5 / -1.5°C	±0.37°C	±0.37°C
	300~400°C	—	+0.4 / -2.0°C	±0.43°C	±0.43°C
	400~500°C	—	-0.1 / -2.9°C	±0.48°C	±0.48°C

CONTROL UNIT

Model	ACS II-1000	ACS II-2000	ACS II-3000	ACS II-4000
Surface range	30~300°C	30~500°C	—	30~500°C
Internal range	—	—	30~500°C	30~500°C
Control principle	PID Auto-Tuning Control			
Control	Input	Pt 100Ω, φ3.2		
	Accuracy	±0.2% of reading +0.3°C		
	Display	8mm high LED display		
Reference sensor	Input	—	Pt 100Ω, φ4.8	
	Accuracy	—	±(0.05% of reading +0.05)°C	
	Display	—	12.5mm high LED display	
Power consumption	approx. 250W	approx. 1100W	approx. 1600W	approx. 1600W
Dimensions W×H×D (mm)	320×177×350		430×177×350	
Weight	approx. 4.5kg		approx. 5.0kg	

CALIBRATION UNIT

Model	ACS II-1000	ACS II-2000	ACS II-3000	ACS II-4000
Testing surface	φ78mm	φ100mm	—	□150mm
Test point	—	—	8 holes based on specified dimension	
Temp. distribution	±0.1°C			
Heater	200W	1000W	1500W	1500W
Dimensions W×H×D (mm)	260×130×260	390×221×360	450×405×400	
Weight	approx. 7kg	approx. 20kg	approx. 70kg	
Overheating prevention mechanism	Bimetal breaker			
Heating time	30→150°C 20min. 30→300°C 40min.	30→250°C 20min. 30→500°C 50min.	30→250°C 60min. 30→500°C 150min.	
Cooling time	300→150°C 20min. 150→50°C 40min.	500→250°C 30min. 250→50°C 70min.	500→250°C 220min. 250→100°C 430min.	

● Supplied accessories

Model	ACS II-1000	ACS II-2000	ACS II-3000	ACS II-4000
Supplied accessories	Power cable, Heater cable, Sensor cable, Manual, Test report			
	Protective cover for calibration block		Standard sensor for calibration (Pt 100Ω platinum resistor)	