

Model ACS II series

Temperature Calibration System

Model ACSII 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.

ACSII 模式系列

ACSII 模式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,可用于温度感应器的校正、检测等用途。

ACS II シリーズは、表面温度、内部温度の基準校正器です。

室温から500°Cまで、自由に温度を設定できます。温度センサの校正、チェックなどにご使用ください。

ACSII-1000

For Surface Temperature Max. 300°C



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

ACSII-2000

For Surface Temperature Max. 500°C



Specifications

OVERALL ACCURACY

Model		ACSII-1000	ACSII-2000	ACSII-3000	ACSII-4000	
Calibration object		Surface temperature	Surface temperature	Internal temperature	Surface temperature	Internal temperature
Range	Rt~100°C	+0.5 / -0.7 °C	+0.5 / -0.7 °C	±0.26°C	+0.4 / -0.6 °C	±0.26°C
	100~200°C	+0.5 / -1.1 °C	+0.5 / -1.1 °C	±0.32°C	+0.3 / -0.9 °C	±0.32°C
	200~300°C	+0.5 / -1.5 °C	+0.5 / -1.5 °C	±0.37°C	+0.1 / -1.1 °C	±0.37°C
	300~400°C	—	+0.4 / -2.0 °C	±0.43°C	+0.2 / -1.5 °C	±0.43°C
	400~500°C	—	-0.1 / -2.9 °C	±0.48°C	-0.9 / -2.2 °C	±0.48°C

CONTROL UNIT

Model		ACSII-1000	ACSII-2000	ACSII-3000	ACSII-4000
Surface range		Rt~300°C	Rt~500°C	—	Rt~500°C
Internal range		—	—	Rt~500°C	Rt~500°C
Control principle		PID Auto-Tuning Control			
Control	Input	Pt 100Ω, φ3.2			
	Accuracy	±(0.2% of reading) °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. 160W	approx. 700W	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	ACSII-1000	ACSII-2000	ACSII-3000	ACSII-4000
Testing surface	φ78mm	φ100mm	—	□150mm
Test point	—	—	8 holes based on specified dimension	
Temp. distribution	±0.1°C			
Heater	150W	600W	1500W	1500W
Dimensions W×H×D (mm)	260×130×260	390×230×360	450×405×400	
Weight	approx. 7kg	approx. 20kg	approx. 70kg	
Overheating prevention mechanism	Bimetal breaker			
Heating time	Rt→150°C 20min. Rt→300°C 40min.	Rt→250°C 20min. Rt→500°C 50min.	Rt→250°C 60min. Rt→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	ACSII-1000	ACSII-2000	ACSII-3000	ACSII-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)	