



ACS Material Equipment Series

InSitu Pro™ AECHO600SB

- | | |
|------|------------------------|
| I. | Product Composition |
| II. | Product Features |
| III. | Product Specifications |

Contact Information:

ACS Material, LLC

Address: 959 E Walnut St., Suite 100

Pasadena, CA 91106, USA

Phone: (866) 227-0656

Fax: (781) 518-0284

E-Mail: contact@acsmaterial.com

Revision: 070325

I. Product Composition

1) Main Unit



Photo of InSitu Pro™ AECHO600SB

II. Product Features

The machine is a product designed for studying the variable temperature electrical properties of samples. It can characterize the changes in the electrical properties of samples with temperature variations. The product utilizes a semiconductor-based heating and cooling method (thermoelectric cooling), enabling precise temperature control within the range of -25 to 120°C. It can be integrated with other electrical instruments (such as bridges, source meters, and multimeters) for variable-temperature in-situ testing.

The product needs to be used with a temperature controller. The accompanying temperature control software on the host computer facilitates temperature setting and data acquisition. The provided LabVIEW Vis/C# SDK allows customers to perform customized programming.

III. Product Specifications

InSitu Pro™ External Adjustment Probe Stage B- AECHO600SB						
SKU#	EIPOCHB1					
Temperature Control Module	Cooling And Heating Method	Semiconductor	Structural Properties	Sample Stage Size	40x40mm *	
	Temperature Control Range	-25 ~ 120 °C *		Sample Stage Material	Brass *	
	Temperature Stability	±0.1°C		Overall Dimensions	375x375x66mm *	
	Temperature Resolution	0.1°C		Sample Chamber Height	11mm *	
	Heating and Cooling Rate	0~30°C /min (Programmable point control or segmented control), up to 150°C/min		Chamber	Vacuum*	
				XYZ Displacement Range	±6.5mm	
	Temperature Control Method	PID	Probe Displacement Accuracy	10µm		
	Temperature Sensor	PT100		Probe	Adjustable probes x4, Fixed probes x2 *	
Optical Properties	Optical Path	Reflective optical path * (optional transmissive optical path)	Electrical Properties	Probe Connector Type	SMA x 8 *	
	Window Material	Quartz glass (manually removable and replaceable) *		Sample Table Potential	Default electrical suspension *, optional electrical grounding	
	Window Dimensions	Ø100mm *	Basic Configuration	1 main machine, 1 temperature controller, 1 water circulation system, and 1 temperature control software, and 1 bottom XY axis displacement stage (compatible with optical platform).		
	Objective Working Distance	14mm *				

	Light Transmission Aperture	Default no light transmission * (optional with light transmission aperture)	Optional	Computer main unit / installation bracket / vacuum system / custom temperature control software.
	Window Defrosting	Airflow defrosting at sub-zero temperatures		
Note	All parameters above are default. Items marked with * are customizable.			

Disclaimer: ACS Material, LLC believes that the information in this Technical Data Sheet is accurate and represents the best and most current information available to us. ACS Material makes no representations or warranties either express or implied, regarding the suitability of the material for any purpose or the accuracy of the information contained within this document. Accordingly, ACS Material will not be responsible for damages resulting from use of or reliance upon this information.