

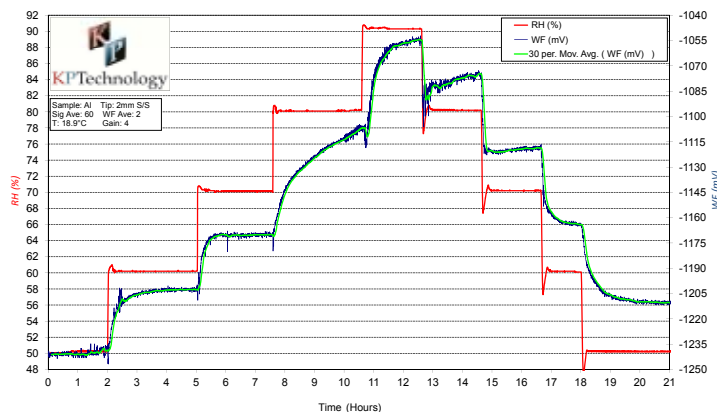


Environmental Kelvin Probe Systems

RHC010, RHC020, RHC030, RHC040

System Description

The Relative Humidity Kelvin Probe Systems are the ideal solution for monitoring samples in a controlled atmosphere. The RHC systems have the ability to automatically control the Relative Humidity within the chamber from 5% to 95% using the easily programmable software. As well as RH control, the RHC020 and 040 Kelvin Probe Systems come with the KP Technology gold-standard Scanning Kelvin Probe platform, perfect for plotting the effect of corrosion over the surface of a sample. The RHC030 and 040 come with the added benefit of Nitrogen atmosphere control with the ability to go down to <1% Oxygen within the System.



Effect of Relative Humidity on Aluminium Sample over time



Relative Humidity System RHC040 with 3-Axis Scanning Capabilities

Features

- Work Function Measurement by Kelvin Probe
- Work Function Resolution of <3meV
- Automatic Control of Relative Humidity
- Atmospheric Control to <1% Oxygen
- Modular System for Upgrades and Add-Ons

Applications

- Organic and Non-Organic Semiconductors
- Metals
- Thin Films
- Solar Cells and Organic Photovoltaics
- Corrosion



Environmental Kelvin Probe Systems

RHC010, RHC020, RHC030, RHC040

System Specifications	RHC010	RHC020	RHC030	RHC040
Tip Material / Diameter	2mm Stainless Steel Tip			
Work Function Resolution	<3meV			
Sample Scanning	Single-Point	50mm x 50mm	Single-Point	50mm x 50mm
Relative Humidity Control	Automatic: 5% to 95%			
Atmospheric Control	RH Only	RH Only	Oxygen to <1%	Oxygen to <1%
Optical System	Front Window		Colour Camera	
Oscilloscope	Digital TFT Oscilloscope for Real Time Signal			
Test Sample	Gold and Aluminium Test Sample			
Breadboard Footprint	900 x 600 mm			
Control Supplied	PC Control with Dedicated Software			
Detection System	Off-Null with Parasitic Capacity Rejection			
Warranty	12 Months			

Upgrades and Add-Ons

- Air Photoemission System
- Surface Photovoltage (QTH or LED)
- Surface Photovoltage Spectroscopy (400-1000nm)
- Upgrade to Scanning Kelvin Probe System
- Sample Heating to 115°C



Relative Humidity System RHC020 with 3-Axis Scanning

The Company

KP Technology was founded with the aim of bringing to the market new surface research tools. These tools would firstly allow specialists to investigate surface phenomena, secondly provide equipment pathways for non-specialists, and finally educate scientists, engineers and technologists in the capabilities of these emerging technologies.

KP Technology also performs a significant amount of material research and training consultancy, mostly based upon the Work Function or Surface Potential evaluation of client samples. Along with a strong Research and Development Division and over 300 systems shipped worldwide, this has placed KP Technology as the Number one supplier of Kelvin Probes in the world.

Contact

For quotation requests, further information or to discuss any research or particular measurements, please feel free to contact us:

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KP Technology was the proud winner of the Queens Award for Enterprise: International Trade 2013

