

## Technology datasheet **Flectronics** Microelectronics & Nanoelectronics



Atomic Force Microscope (AFM) Surface electric potential Operating devices Capacitance second derivative Semiconductors

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keywords

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## Measurement of the surface electric potential of operating devices



Our laboratory has developed a new Atomic Force Microscopy (AFM) based technic to accurately measure the surface electric potential profile of devices in their operating conditions (biased).

It is a **nondestructive** process.

Measurements can be performed in ambient conditions, thanks to :

- Using a dual pass method (lift)
- Synchronizing of the device and tip biasing with second pass only patented
- Using a force gradient sensitive method (EFM phase shift)

## benefits

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