InterDigitated Gold Electrodes

Ref. G-IDEAU5
G-IDEAU10

DropSens **InterDigitated gold Electrodes** (**IDE**s) are composed of **two interdigitated electrodes** with two connection tracks, all made of gold, on a glass substrate. These IDEs offer several advantages, such as working with low volumes of sample and avoiding tedious polishing of solid electrodes.

The interdigitated configuration typically enhances sensitivity and detection limits. They are suitable for decentralized assays, to develop specific (bio)sensors and other electrochemical studies.

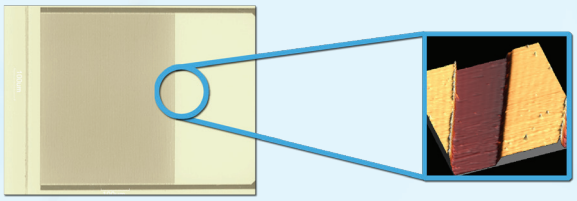
Two dimensions for bands/gaps are available: **5 µm** (ref. G-IDEAU5) and **10 µm** (ref. G-IDEAU10).

Glass substrate dimensions: L 22.8 x W 7.6 x H 0.7 mm

According to Zaretsky's definition of Kcell and by mathematical calculation:

Cell constant for 5µm IDE = 0.0059cm-1
Number of digits: 250 x 2
With a digit length= 6760µm

Cell constant for 10µm IDE =0.0118cm-1
Number of digits: 125 x 2
With a digit length= 6760µm



Stereo microscope (left) and AFM 3D (right) images of G-IDEAU10, 10 µm bands/gaps IDE

Interdigitated electrodes are commercialised in 20 units packs. They should be stored at room temperature, protected from light in a dry place.

Also, specific cable **connectors** that act as an interface between interdigitated electrodes and any potentiostat (ref. **CACIDE**) are available at ***DropSens***.

Related products


G-IDEPT5


G-IDEPT10


G-IDECONAU10


CACIDE


STAT400


STAT8000

Full Catalogue

Contact Form

Parque Tecnológico de Asturias - Edif. CEEI. 33428 LLanera (Asturias). Spain
(+34) 985 27 76 85 - info@dropsens.com - www.dropsens.com