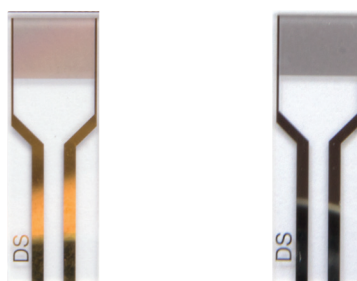


Interdigitated electrodes on glass substrate

01

Ref. G-IDEAU5, G-IDEAU10, G-IDEPT5, G-IDEPT10, G-IDEAG5, G-IDEUC5



Metrohm DropSens interdigitated electrodes (IDEs) are composed of two interdigitated electrodes with two connection tracks, made of same material, on a glass substrate.

Two dimensions of bands/gaps are available: 5 μm and 10 μm in gold or platinum (ref. G-IDEAU5, G-IDEAU10, G-IDEPT5, G-IDEPT10) and 5 μm in silver or copper (ref. G-IDEAG5 and ref. G-IDEUC5).

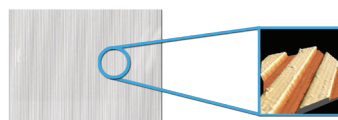
Glass substrate dimensions: L 22.8 \times W 7.6 \times H 0.7 mm

According to Zaretsky's definition of K_{cell} and by mathematical calculation:

Cell constant for 5 μm IDE: 0.0059 cm^{-1}

Number of digits: 250 \times 2

Digit length: 6760 μm

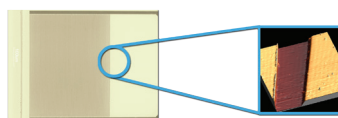


Stereo microscope (left) and AFM 3D (right) images of G-IDEPT5, 5 μm bands/gaps IDE

Cell constant for 10 μm IDE: 0.0188 cm^{-1}

Number of digits: 125 \times 2

Digit length: 6760 μm



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

The interdigitated electrodes are commercialized in packs of 20 units. They should be stored at room temperature, protected from light in a dry place.

Due to the small distances between the fingers of these electrodes, they are intended for use in clean room. In addition, for cleaning, simply pour a little ethanol solution over the electrodes and dry them under a gentle current of N_2 .

Specific cable connectors that act as an interface between interdigitated electrodes and any potentiostat (ref. CACIDE) are available at Metrohm DropSens.

www.metrohm-dropsens.com