InterDigitated Electrodes on Glass Substrate

**Ref. G-IDEAU5, G-IDEAU10, G-IDEPT5, G-IDEPT10, G-IDEAG5, G-IDECU5**

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-IDECU5).

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

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

Cell constant for 5µm IDE: 0.0059 cm$^{-1}$
Number of digits: 250 x 2
Digit length: 6760µm

![Stereo microscope (left) and AFM 3D (right) images of G-IDEPT5, 5 µm bands/gaps IDE](image1)

Cell constant for 10µm IDE: 0.0188 cm$^{-1}$
Number of digits: 125 x 2
Digit length: 6760µm

![Stereo microscope (left) and AFM 3D (right) images of G-IDEAU10, 10 µm bands/gaps IDE](image2)

Interdigitated electrodes are commercialised in 20 units packs. They should be stored at room temperature, protected from light in a dry place. For cleaning just pour some ethanol solution on the electrodes and dry under a gently stream of N$_2$.

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