Zensor Research & Development

Data Sheet of GTE100

Jan 2024

Dimension

The dimension data of GTE100 are shown in **Figure 1**. Thickness of the substrate is 0.4 mm. The geometric area of working electrode (WE), counter electrode (CE) and reference electrode (RE) on GTE100 is 7.1 mm^2, 10.0 mm^2 and 1.0 mm^2 respectively.

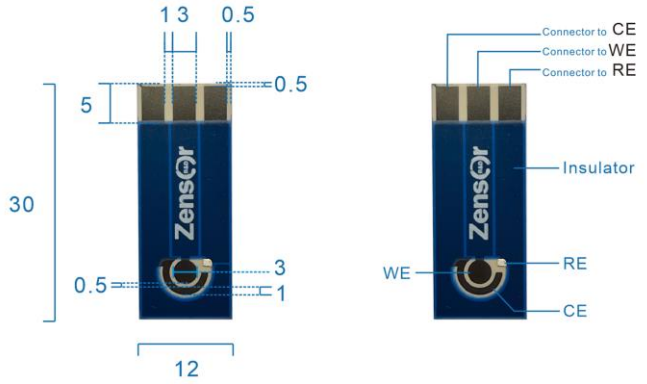


Figure 1 Dimensions of GTE100.

Table 1 Compatible solvent*

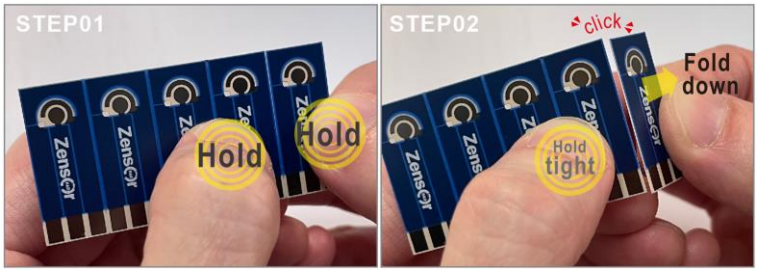
Organic solvent	Concentration	CAS Number
Acetone	≥99.5%	67-64-1
Acetonitrile	anhydrous, 99.8%	75-05-8
Ethanol	95%	64-17-5
Methanol	95%	67-56-1
Chloroform	–	67-66-3
Dimethyl carbonate/Ethylene carbonate	1:1 (volume of ration)	616-38-6 / 96-49-1

*According to stabile electrochemical behavior of GTE100 during cyclic voltammetric scan.

RECOMMEND USE

GTE100 can be used directly in aqueous solutions and organic solvents without cleaning. Tested and compatible organic solvents are listed in **Table 1**. Caution, sensor should be used as soon as possible after removal from package to prevent contamination of glassy carbon and pseudo Ag reference electrode.

5 pieces of GTE100 are designed with easy snap-apart connections. GTE100 can be separated effortlessly by the following procedure.



Materials of WE, CE, RE and substrate

The substrate of GTE100 is aluminum oxide. The material of working electrode and counter electrode are glassy carbon, and the material of reference electrode is AgCl/Ag ink.

Physical stability

GTE100 can be used between 20 to 100 ^{o}C.

Storage

Store the products in the unopened package in a cool, dry place, away from direct sunlight.