

6.1258.000 scTRACE Gold with electrode shaft

The scTRACE Gold (6.1258.000) is a sensor that combines all three electrodes required for a measurement. It is used in conjunction with the electrode shaft (6.1241.080).

Table 2 Properties of the electrode

Working electrode (WE)	Gold microwire
Reference electrode (RE)	Ag/AgCl (screen-printed)
Auxiliary electrode (AE)	Carbon (screen-printed)

Scope of application

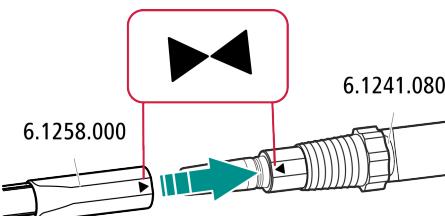
- The scTRACE Gold has been developed for use in waters and aqueous solutions.
- The scTRACE Gold is not resistant to solvents. It may not be used for measurements in non-aqueous systems.

Preparing the sensor

The scTRACE Gold can simply be mounted onto the electrode shaft:

- Open the bag at the marking.
- Remove the scTRACE Gold and attach it to the electrode shaft.

Make sure that the marking (►) on the sensor is exactly aligned with the marking (◄) on the electrode shaft.



NOTE

Only slight force is required to attach the scTRACE Gold.

If the sensor cannot be attached easily, then it is canted in relation to the electrode shaft.

Realign the scTRACE Gold and the electrode shaft (►◄) and try again.

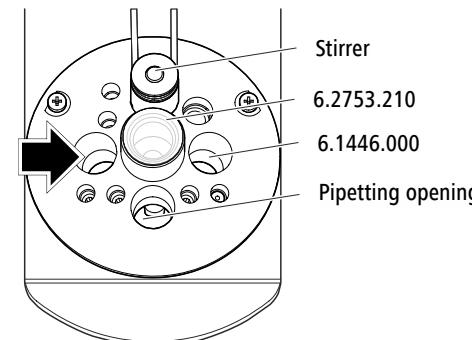
- Pull off the protective cap of the scTRACE Gold.

CAUTION

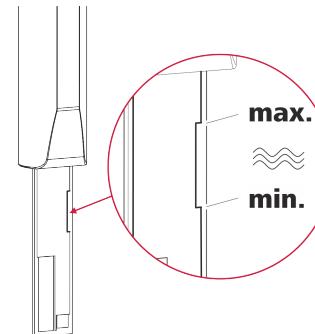
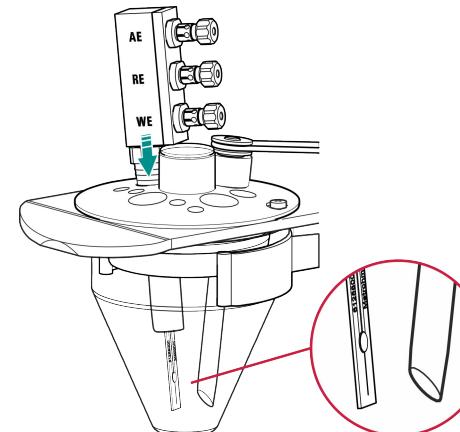
Do not touch the working electrode, the reference electrode and the auxiliary electrode.

Inserting the sensor into the measuring head and connecting it

- Insert the electrode shaft with the scTRACE Gold into the left bore hole of the measuring head.

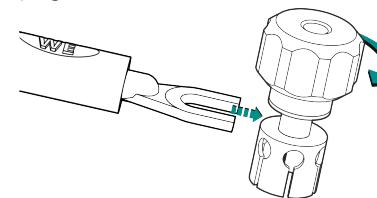


- Position the scTRACE Gold in such a way that the working electrode faces the stirrer directly.



NOTE

Notes on preparing the sensors electrochemically can be found in the respective application documents.



- Fasten the spade terminals to the adapter plugs by tightening the top of the adapter plugs.
- Attach the adapter plugs to the cylinder contacts on the electrode shaft.
- Make sure that the cables are connected to the correct respective connector (AE to AE, WE to WE, RE to RE).

NOTE

Before every measurement, make sure that the level of the solution is between the **min.** and **max.** markers.

Storage and care

If an scTRACE Gold is not in use:

- Carefully clean it with ultrapure water and store dry.

If you remove the sensor from the measuring head for storage, make sure that the gold microwire is not damaged during removal or storage.

Troubleshooting

- The sensor shows no measuring signal even though analyte is present:
 - Check if the method parameters are in accordance with the Application Bulletin or Application Note.
 - Replace the sensor.
- Peak or signal is decreasing:
 - Replace the sensor.
- A new, unknown peak appears in the voltammogram:
 - Rinse the scTRACE Gold with ultrapure water.
 - Rinse the measuring cell with diluted sulfuric acid ($c(H_2SO_4) = 2 \text{ mol/L}$).