

MSREF 2

Ag/AgCl solid state reference electrode with PVA electrolyte layer



Key Features

- Solid state Ag/AgCl reference electrode
- No storage in KCl required
- Very small size
- Long lifetime

Applications

- Laboratory
- Measurement in small volumes
- MSFET 33330 Demo kit
- In combination with MSFET sensor element

Characteristics:

- Temperature range: 0°C ... 70°C
- pH range: 2 ... 10
- Sheath material: PO (Polyolefin)

Electrode Characteristics

Dimensions:

	min	typical	max	
Length		26		mm
Width (tip diameter)		6		mm
Thickness		1.5	2	mm

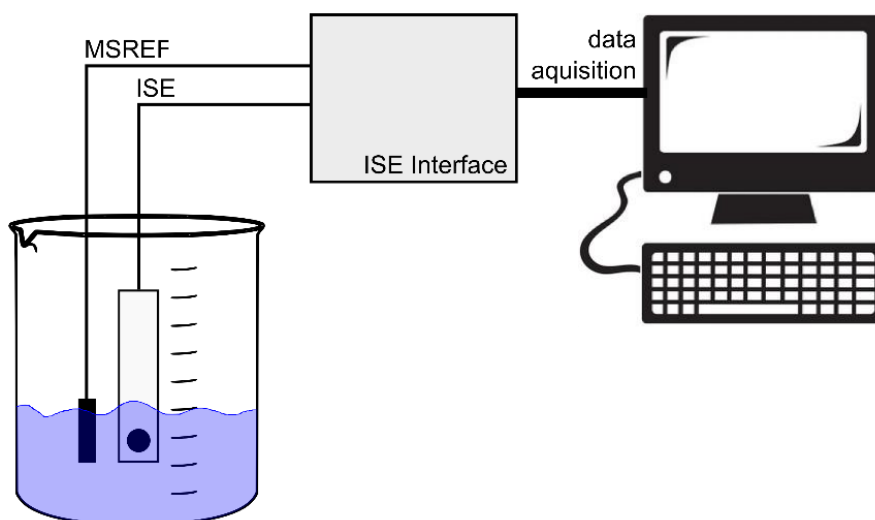
Characteristics:

- Can be stored dry (keep away from intense light)
- The solid electrolyte layer needs to be fully hydrated before first use and after drying. Without proper hydration the MSREF2's impedance will be very high, leading to a noisy and/or unstable measurement signal.
- Hydration time for a dry (or dried) MSREF2 is:

	min	typical	max	
Hydration time	0.5	2	12	h

Application

The reference electrode MSREF2 is used to obtain a stable reference potential in electrochemical measurements. It is submerged in the same volume as the Ion Sensitive Electrode (ISE) used to characterize the solution. The reference electrode is connected to the reference input of the sensor electronics.



Handling recommendations:

- 1 – Store under dry conditions.
- 2 – Don't touch the tip of the electrode.
- 3 – Avoid contact with sharp objects (no scratching).
- 4 – Rinse the electrode shortly with DI water before and after use. Blow-dry very gently if needed.
- 5 – Avoid prolonged exposure to solutions of low ionic strength (e.g. DI water).
- 6 – For extended measurements only the round tip of the electrode should be submerged.