

DPST Electrochemical Electrodes

DPST Reference Electrodes

DPST reference electrodes are applicable to any common electrochemical instruments. DPST reference electrodes for polarography are designed especially for the application in Metrohm, GAT, PolaroSensors and Ekom PA voltametric analyzers.

Standard DPST reference electrodes have a glass or plastic body. They are available maintenanceless without filling hole and filled with an electrolyte gel saturated with an excess of reference salt for a stable lifetime function or with a filling hole for the maintenance with reference electrolyte.

Argentchloride (Ag/AgCl, KCl, c = as required, saturated by AgCl), calomel (Hg/Hg₂Cl₂, KCl, c = as required, saturated by calomel) and mercurousulphate (Hg/Hg₂SO₄, K₂SO₄, c = as required, sat. by Mercurousulphate) reference electrodes are available.

If it is not allowed to use KCl diaphragm solution, for example if precipitation occurs, the argentchloride as well as the calomel electrodes are available in double junction design. The junction may be filled with any suitable electrolyte.

Special reference electrodes for the application in polarography are described later.

We offer atypical custom made electrodes on request with description.

Dimensions: Body Ø: 12 mm, cap Ø: 16 mm, total length: 145 mm.

The temperature range depends on the electrode type: 0 °C to 80 °C (argent chloride), 0 °C to 70 °C (calomel) and 0 °C to 40 °C (mercurousulphate).

The DPST reference electrodes are classified by following type numbers:

First digit 4	14 mm glass cone (NS 14)
First digit 5	PG 13,5 thread adapter
First digit 6	plastic body, maintenanceless
First digit 7	glass body, maintenanceless
Fifth digit 0	standard
Fifth digit 5	double junction

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DPST Reference Electrode		Type
Argentchloride, various KCl concentrations, saturated with AgCl	No cone	10-20+
	14 mm glass cone (NS 14)	410-20+
	PG 13,5 thread adapter	510-20+
	Plastic body, maintenanceless	610-20+
	Glass body, maintenanceless	710-20+
	Double junction	10-25+
	Double junction, 14 mm glass cone	410-25+
	Double junction, PG 13,5 thread adapter	510-25+
Calomel, various KCl concentrations, saturated with calomel	No cone	10-10+
	14 mm glass cone (NS 14)	410-10+
	PG 13,5 thread adapter	510-10+
	Plastic body, maintenanceless	610-10+
	Glass body, maintenanceless	710-10+
	Double junction	10-15+
	Double junction, 14 mm glass cone	410-15+
	Double junction, PG 13,5 thread adapter	510-15+
Mercurosulphate, various K_2SO_4 concentrations, saturated with mercurosulphate	No cone	10-20+
	14 mm glass cone (NS 14)	410-30+
	PG 13,5 thread adapter	510-30+
	Plastic body, maintenanceless	610-30+
	Glass body, maintenanceless	710-30+



DPST reference electrode type 10-201



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