

DPST Electrochemical Electrodes

DPST Glass pH Electrodes

Due to their very common and universalized use DPST glass pH electrodes are available especially adjusted to many applications e.g. for laboratory or process use, with or without temperature sensor, with spear tip for immersion, sterilisable or with enhanced mechanical resistance or as combined or half cell electrodes.

Our DPST glass pH electrodes are applicable to all commonly used measuring apparatus with an input resistance of $10^{12} \Omega$ or more.

The electrodes with temperature compensation elements (Pt 100, Pt 1000, Ni 1 k Ω , Ni 2 k Ω or thermistor NR 3 k Ω) are equipped with an additional banana plug for the temperature sensor.

All combined electrodes are also available maintenanceless without filling hole, filled with a gel reference electrolyte. The standard reference unit is an argentchloride electrode (electrolyte: KCl, c = 3,0 mol/l, AgCl, c = sat.). If needed electrodes with a saturated calomel reference unit is available on request. Double junction combined electrodes have an argent chloride reference unit (KCl, c = 3,0 mol/l, AgCl, c = sat.) which is connected to the sample via an appropriate junction solution. In some cases (e.g. ISE measurements) the double junction design avoids pollution of the reference unit and/or the sample itself.

All process use combined electrodes are designed maintenanceless without filling hole. Spear tip electrodes for piercing are suitable for pH measurement in paste-like materials.

Semimicro spear tip electrodes are especially suitable for small amount sample measurements as in Eppendorf sample vessels.

We offer custom made atypical electrodes on request with description.

Dimensions:

Glass body: 12 mm \varnothing

Total length 135 mm.

Laboratory electrodes: cap 16 mm \varnothing

Process electrodes: cap with 18 mm \varnothing armature fixing ring

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DIREKT POTENTIOMETRISCHE SENSOR TECHNIK

Type numbers:

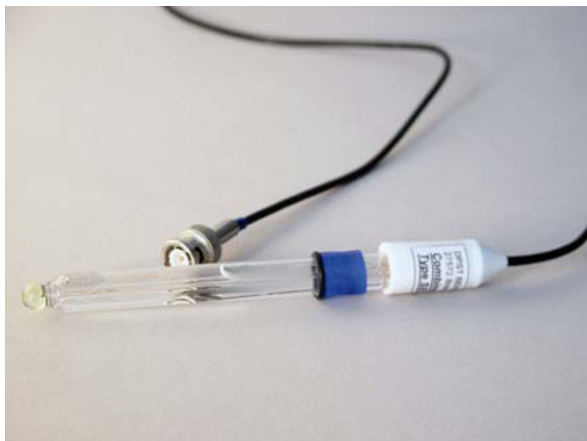
Three letters	half cell without reference electrode
Four letters	combined electrodes
First digit 1	process use, maintenanceless
First digit 2	laboratory use, reference unit with filling hole
First digit 6	plastic body, maintenanceless
Second digit 1	electrode without temperature sensor
Second digit 2 – 6	see table
Second digit 9	electrode with temperature sensor
Third digit +	connector, see page 6, "Compatibility" and "DPST Type Numbers"

DPST Glass pH Electrode		Temp. /°C	pH
Half cell electrode, enhanced mechanical resistance			
Laboratory use	SEO 21+	5-105	0-13
Process use	SEO 11+	5-105	0-13
PG 13,5 adapter	SEO 51+	5-105	0-13
Half cell electrode, low temperature range			
Laboratory use	SEN 21+	-5-50	0-11
Process use	SEN 11+	-5-50	0-11
Half cell electrode, general purpose			
Laboratory use	SEU 21+	10-105	0-14
Process use	SEU 11+	10-105	0-14
Combined pH-electrode, enhanced mechanical resistance			
Laboratory use	SEOJ 21+	5-105	0-13
Process use	SEOJ 11+	5-105	0-13
PG 13,5 adapter	SEOJ 51+	5-105	0-13
plastic body, maintenanceless	SEOJ 61+	5-60	0-13
Combined pH-electrode, low temperature range			
Laboratory use	SENJ 21+	-5-50	0-11
Process use	SENJ 11+	-5-50	0-11
Combined pH-electrode, general purpose			
Laboratory use	SEUJ 21+	10-105	0-14
Process use	SEUJ 11+	10-105	0-14

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DPST Glass pH Electrode		Temp. /°C	pH
Combined pH-electrode, spear tip for piercing:			
Laboratory use	SEOJ 22+	5-90	0-13
Combined pH-electrode, enhanced pressure, max 800 kPa			
Process use	SEOJ 13+	5-105	0-13
Combined pH-electrode, sterilisable at 300 kPa, 135 °C			
	SEOJ 31+	5-105	0-13
Combined, semimicro, general purpose, sensor Ø 6,5 mm, 70 mm length			
	SEOJ 25+	5-90	0-13
Combined, semimicro, spear tip, sensor Ø 6,5 mm, 70 mm length			
	SEOJ 24+	5-90	0-13
Combined pH-electrode, double junction combined electrode			
	SEOJ 26+	5-90	0-13
Combined, enhanced mechanical resistance, temperature compensation			
Laboratory use	SEOJ 29+	5-105	0-13
Process use	SEOJ 19+	5-105	0-13



DPST pH-electrode type SEOJ 212

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DIREKT POTENTIOMETRISCHE SENSOR TECHNIK

You look for a higher standard of pH-electrodes?

You are probably aware of the successful GAT IONODE™.

We are offering a IONODE™ will significantly improved performance.

Don't hesitate to ask us for more informations about the IJ technique, a product of one of our partners, IONODE™ from Australia.



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