

# DPST Electrochemical Electrodes

## DPST Ion Selective Electrodes, ISE

DPST ISEs fit to any common meter with an input resistance of more than  $10^9 \Omega$  ( $10^{12} \Omega$  for gas sensing electrodes).

DPST ISEs are available as half-cell (20-) or combined electrodes (25-). The combined electrodes are constructed in one body with an argentchloride reference electrode, electrolyte KCl,  $c = 0,1 \text{ mol/l}$ . Combined ISEs may be used if the chloride ion emission of the reference electrode does not disturb the measurement. Otherwise a DPST ISE may be combined with a suitable DPST reference electrode, e.g. a double junction one (see "DPST reference electrodes").

The third and the fourth type number represent the ions position in the periodic table of the elements as e.g.: Lithium ISE 20-03+.

Gas sensing  $\text{NH}_3$  and  $\text{CO}_2$  electrodes are constructed as combined electrodes. For the maintenance of our gas sensing electrodes we offer replacement sets (2 sensor caps and filling electrolyte solution).

The temperature range covers  $0^\circ\text{C}$  to  $40^\circ\text{C}$  except for the sodium ISE:  $0^\circ\text{C}$  to  $80^\circ\text{C}$ . More individual specifications concerning membrane type and measuring range are listed in the electrodes' table.

Electrode dimensions for all DPST ISE are:

Body diameter:	12 mm
Cap diameter:	16 mm
Electrode length:	145 mm



DPST SCN ISE type 20-582



DPST  $\text{NH}_4^+$  ISE type 20-102

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DPST Ion Selektive Electrode		Ion	Sensor	pX
Ammonium	20-10+	NH <sub>4</sub> <sup>+</sup>	Plastic	1 – 5
Ammonium comb.	25-10+		Plastic	1 – 5
Lithium	20-03+	Li <sup>+</sup>	Plastic	1 – 5
Lithium comb	25-03+		Plastic	1 – 5
Sodium	15-11+	Na <sup>+</sup>	Glass	1 – 6
Sodium, comb.	25-11+		Glass	1 – 6
Potassium	20-19+	K <sup>+</sup>	Plastic	1 – 6
Potassium comb.	25-19+		Plastic	1 – 6
Calcium	20-20+	Ca <sup>2+</sup>	Plastic	1 – 6
Calcium comb.	25-20+		Plastic	1 – 6
Barium	20-56+	Ba <sup>2+</sup>	Plastic	1 – 6
Barium comb.	25-56+		Plastic	1 – 6
Nitrate	20-31+	NO <sub>3</sub> <sup>-</sup>	Plastic	1 – 6
Nitrate comb.	25-31+		Plastic	1 – 6
Fluoroborate	20-41+	BF <sub>4</sub> <sup>-</sup>	Plastic	1 – 6
Fluoroborate comb.	25-41+		Plastic	1 – 6
Perchlorate	20-49+	ClO <sub>4</sub> <sup>-</sup>	Plastic	1 – 6
Perchlorate comb.	25-49+		Plastic	1 – 6
Fluoride	20-09+	F <sup>-</sup>	Inorganic	1 – 6
Fluoride comb.	25-09+		Inorganic	1 – 6
Chloride	20-17+	Cl <sup>-</sup>	Inorganic	1 – 5
Chloride comb.	25-17+		Inorganic	1 – 5
Rhodanide	20-58+	SCN <sup>-</sup>	Inorganic	1 – 5
Gas sensing NH <sub>3</sub>	11-10+	NH <sub>3</sub>	Gas permeable	1 – 5
Gas sensing CO <sub>2</sub>	11-22+	CO <sub>2</sub>	Gas permeable	2 – 5

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