Ion-selective electrodes

Electrode system:

- two-electrode - measuring ion-selective electrode + auxiliary electrode;
- combined - measuring and auxiliary electrodes are combined constructively in one housing

Materials of electrode bodies:

- glass (model 1502);
- epoxy resin (model 1503).

BASIC TECHNICAL SPECIFICATION AND PARAMETERS

Electrode	Type	Range		Slope, mV/dec under 25°C	pH Range	Temp range, °C		Resp. time, sec	hampering ions (95%, in 1x10^{-2}M)
		mole	ppm			long	short		
Ammonia (NH3)	NH31501	1,0-5x10-7	17,000-0,01	56±3	>11	0-50	-	30	Volatile amides
Ammonium (NH4+)	NH41501/NH41502	1,0-5x10-6	18,00-0,1	56±2	4-10	0-50	-	30	K+
Bromide (Br-)	BR01501/BR01502	1,0-5x10-7	79,900-0,40	57±2	2-14	0-80	0-100	20	I-, CN-, S2-, Cl-, NH3
Cadmium (Cd2+)	CD21501/CD21502	1x10-1-1x10-7	11,200-0,01	27±2	2-12	0-80	0-100	20	Ag+, Hg2+, Cu2+, Pb2+, Fe2+
Calcium (Ca2+)	CAL1501/CAL1502	1,0-5x10-6	40,000-0,2	27±2	3-10	0-50	-	30	Pb2+, Hg2+, Cu2+, Ni2+
Carbon dioxide CO2 Carbonate CO32-	CO21501	1x10-2-1x10-4	440-4,4	56±3	4,8-5,2	0-50	-	30	Volatile acids
Chloride (Cl-)	CL01501/CL01502	1,0-5x10-6	35,500-1,8	56±2	2-12	0-80	-	20	S2-, I-, Br-, Cl-
Copper (Cu2+)	CU01501/CU01502	1x10-1-1x10-8	6,350-6,4x10-4	27±2	0-12	0-80	0-100	20	Ag+, Hg2+, Cl-, Br-, Fe2+
Cyanide (CN-)	CN01501/CN01502	1x10-2-5x10-6	260-013	57±2	11-13	0-80	0-100	20	S2-, I-, Br-, Cl-
Fluoride (F-)	F001501/F001502	saturated-1x10-6	saturated-0; 0,2	57±2	5-8	0-80	0-100	20	OH-
Fluoroborate (BF4-)	BF45101 BF41502	1,0-7x10-6	10,800-0,1 (как B)	57±2 56±2	2,5-11	0-50		30	ClO4-, I-, CN-
Iodide (I-)	I001501/I001502	1,0-5x10-8	127,000-6x10-3	57±2	0-14	0-80	0-100	20	S2-, CN-, NH3, S2O32-, Cl-, Br-
Lead (Pb2+)	PB21501/PB21502	1x10-1-1x10-6	20,700-0,2	25±2	3-8	0-80	0-100	20	Ag+, Hg2+, Cd2+, Fe2+
Lithium (Li+)	LIT1501/LIT1502	1,0-1x10-5	6,900-0,7	56±2	5-10	0-50	-	30	Na+, K+,Ca2+
Nitrate (NO3-)	NO31501/NO31502	1,0-7x10-6	62,000-0,5	57±2	2,5-11	0-50	-	30	ClO4-, I-, CN-, BF4-
Nitric oxide (NOx)	NOX1501	5x10-3-5x10-6	220-0,2	56±3	1,1-1,7	0-50	-	30	SO2-, HF, CH3COOH
Perchlorate (ClO4-)	PER1501/PER1502	1,0-7x10-6	98,000-0,7	56±2	2,5-11	0-50	-	30	There is no noticeable influence
Potassium (K+)	K001501/K001502	1,0-1x10-6	39,000-0,04	56±2	2-12	0-40	0-50	30	Cs+, NH4+
Silver / Sulfide (Ag+/S2-)	AGS1501/AGS1502	Ag+=1,0-1x10-7 S2-=1,0-1x10-7	107,900-0,01 32,100-0,003	57±2 27	2-12	0-80	0-100	20	Hg2+, Hg+
Sodium (Na+)	NA71501/NA71502	1,0-1x10-5	23,000-0,2	56±2	5-12	0-80	-	20	K+, Li+, H+, Ag+, Cs+
The surface-active substances (X+, X-)	SUR1501/SUR1502	5x10-2, 1x10-5	12,000-1,0	For titration	2-12	0-50	-	30	Same types of surfactants
Hardness of water (Ca2+/Mg2+)	WHA1501/WHA1502	1,0-1x10-5	40,00-0,4 (like Ca)	26±3	5-10	0-50	-	20	Cu2+, Zn2+, Ni2+, Fe2+

Models 1501 are mono; 1502 - combined glass electrode; 1503 - combined epoxy electrode.