

Learning of the sensors.

Control questions:

1. What is called a sensor? Specify the main types.
2. What are the main advantages of electrical methods for measuring non-electrical quantities?
3. What is the sensitivity of the sensor and the sensitivity threshold?
4. Describe the device and the principle of operation of the load cell, its application in medicine.

Load cell

No	h, sm	b, sm	L, sm	R ₀ , Ohm	m, g	R _d , Ohm	K
1	0,01	2	30	45,00	300	45,24	
2	0,01	2	30	45,00	400	45,31	
3	0,01	2	30	45,00	500	45,40	
4	0,01	2	30	45,00	600	45,47	

Termosensor

No	T ₁	T ₂	n (mV)
1	22	27	4
2	22	32	8
3	22	37	12
4	22	42	16
5	22	47	20
6	22	52	24
7	22	57	28
8	22	62	32
9	22	67	36
10	22	72	40
11	22	77	44
12	22	82	48
13	22	87	52
14	22	92	56
15	22	97	60
16	22	102	64

Oximeter

	Delay of breath								Recovery of breath			
Time, s	10	20	30	40	50	60	70	80	90	100	110	120
OL %	99	98	97	95	94	93	92	88	89	94	98	100