

51 (1) Biomedical sensor application

They are many different kinds of sensors can be used in biomedical application. According to the sensing principle in biomedical application biomedical application sensors is classified into physical sensors and chemical sensors

Physical sensors

- (1) Geometric
- (2) Mechanical
- (3) Thermal
- (4) Hydraulics

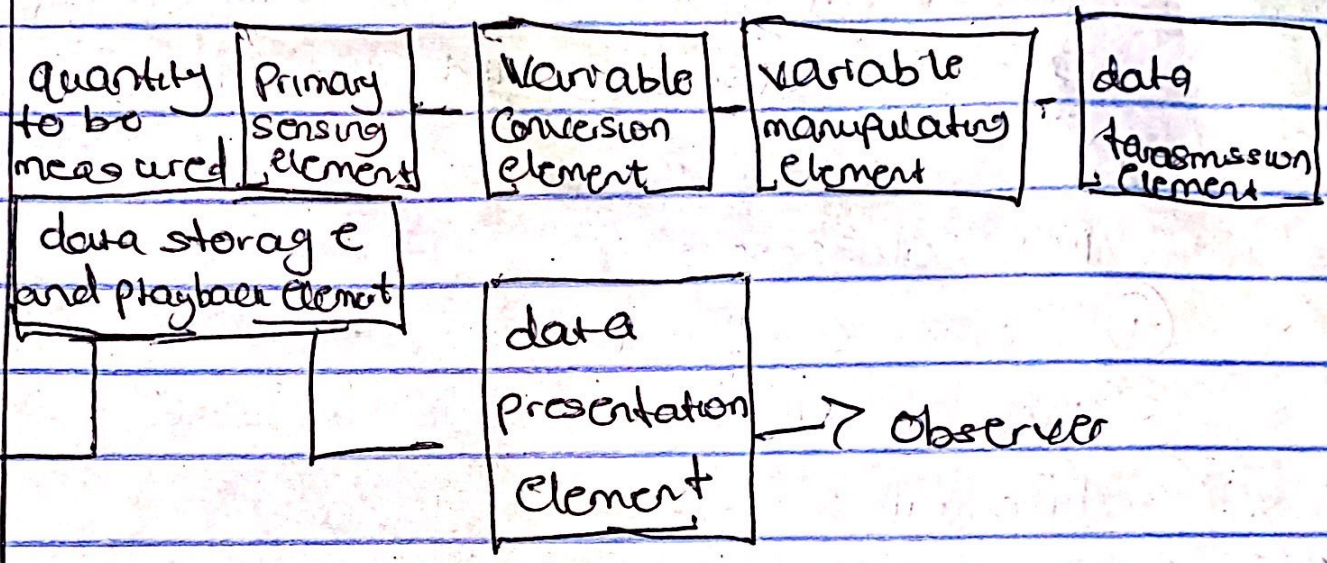
Chemical sensors

- (1) Gas
- (2) Electrochemical
- (3) Photometric

Biopotential electrodes

- (1) Body surface biopotential electrode
- (2) metal plate.

② Measuring instrument is a device to measure a physical quantity



- (i) primary sensing element
- (ii) variable conversion element
- (iii) variable manipulation element
- (iv) data transmission element

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(1) Bedpan instrument
For patients who are unconscious or too weak to sit up or walk to the toilet to defecate

(1) Melting point measuring instrument
is a melting point meter. The apparatus is a scientific instrument used to determine the melting point of a substance some types of melting point apparatuses include the Thiele tube, Fisher-Johns apparatus, Gallenkamp melting point apparatus and automatic melting point apparatus.

② A stethoscope equipped with both diaphragm and bell chestpieces have a valve that may be turned to enable the Clinician to listen either the bell or the diaphragm. The stethoscope is an important auscultatory tool, consist of two earpieces angled at the same angle as the ear, rubber tubing, and a head with either a diaphragm (plastic disc) or a bell (hollow cup)