

Ion concentration sensor (Technion)

code: MED-0680

Ion concentration measurements, particularly pH measurements, are performed routinely in the chemical, biochemical, biomedical and other fields. Also, much effort has been invested in creating a combined ion and image sensors for advanced biotelemetry systems. Conventional ion concentration sensors require readout circuitry to convert an electrical response to values corresponding to the ion concentration in the solution. This circuitry increases the size and complexity of the sensor and increases its power consumption. Furthermore, it also adds limitation to the bandwidth and reduces the stability of the sensor. This sensor can perform simultaneous ion and image sensing without readout circuitry creating a critical device for advanced biotelemetry systems that are energy-efficient, compact and reliable.

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