

ABSTRACT

Infusion is the entry of a liquid or drug into the body through an injection at a constant rate for a period of time. The infusion is done for a patient who needs medication very quickly or needs to administer the drug slowly but continuously. Therefore the nurse must check the patient's room one by one to see the volume of infusion fluid and check the drip drops. This can be overcome by developing infrared sensors for infusion monitoring that can detect the volume of intravenous fluids and infusion droplets into the infusion monitoring system so that nurses do not check the patient rooms one by one. This infusion monitoring tool uses 3 infrared sensors as transmitters and 3 photo sensors diodes as receivers to detect the volume of intravenous fluids, and use 1 infrared sensor as a transmitter and 1 photodiode sensor as a receiver to detect infusion droplets per minute. This prototype works when the infusion liquid is reduced, the sensor detects high, low, intermediate levels and the sensor also detects drip drops per second.

Keywords: Infusion Level, Infusion Water drops, Infra Red, Prototype