

# Wireless Glucose Monitoring System

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Currently, it is estimated that approximately 180 million people around the world are suffering from diabetes. Because of the importance of reliable and fast blood sugar monitoring for diabetes, the development of an effective glucose monitoring system has been a subject of concern for decades. Diabetics who use insulin monitor their blood sugar level more often, both to assess the effectiveness of their prior insulin dose and to help determine their next insulin dose. Consequently, having an effective continuous monitoring system which could read glucose levels and dispense insulin when necessary is a great benefit. Because glucose levels change with exercise, our system needs to distinguish patient's current activity. This involves sensing heart rate, blood pressure, motion, skin resistance, and temperature. This device can then reside in a small wrist band and transmit data wirelessly to the pump or even to doctors who are monitoring your condition. A successful implementation would allow diabetics to lead a more normal life.

