

Intelligent Cold Climate Glove

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Abstract: *The environment is affected by the varying climatic conditions from time to time. Extreme temperatures can be quite harmful to your health. Serious health problems are caused by prolonged exposure to heat and by keeping the body at an extreme temperature. Heat stroke is the most dangerous issue in an excessively hot climate. The risk of hypothermia or hazardous overcooling of the body is the most important issue at very low temperatures. These strange weather patterns can occasionally result in tragic deaths of individuals. In order to provide better protection to those who live in harsh weather conditions, the "Intelligent Cold Climate Glove" design was created. The ideal temperature is maintained inside this glove. Particularly for our soldiers serving in harsh weather, the Smart-Glove is incredibly helpful. By using the heating pad with this technology, the user may regulate and keep an eye on their internal body temperature. This glove also has a Bluetooth module as an added feature for monitoring body temperature as well as the humidity and temperature of the surrounding area. The user can also keep an eye on the data using an Android app connected via Bluetooth and an OLED display. When the temperature reaches the threshold value, the heating pad is automatically turned on to give the appropriate temperature, and when the temperature surpasses the threshold value, the threshold value is automatically turned off.*

Keywords: Arduino Nano, IOT, DS18B20, DHT11, Heating pad

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