## **ESP Deep Sleep**

The RST pin of the ESP8266 is always HIGH while the ESP8266 is running. However, when the RST pin receives a LOW signal, it restarts the microcontroller.

If you set a Deep Sleep timer with the ESP8266, once the timer ends, GPIO 16 sends a LOW signal. That means that GPIO 16 when connected to RST pin can wake up the ESP8266 every time the timer ends.

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## Sleep Modes

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## **Example Code**

```
* ESP8266 Deep sleep mode example
* Rui Santos
 * Complete Project Details http://randomnerdtutorials.com
void setup() {
 Serial.begin(115200);
 Serial.setTimeout(2000);
 // Wait for serial to initialize.
 while(!Serial) { }
 // Deep sleep mode for 30 seconds, the ESP8266 wakes up by itself when GPIO 16 (DO in NodeMCU board) is
connected to the RESET pin
 //Serial.println("I'm awake, but I'm going into deep sleep mode for 30 seconds");
 //ESP.deepSleep(30e6);
 // Deep sleep mode until RESET pin is connected to a LOW signal (for example pushbutton or magnetic reed
switch)
 Serial.println("I'm awake, but I'm going into deep sleep mode until RESET pin is connected to a LOW signal");
 ESP.deepSleep(0);
void loop() {
```

## References

Reference	URL
ESP8266 Deep Sleep with Arduino IDE	https://randomnerdtutorials.com/esp8266-deep-sleep-with-arduino-ide/