

Aim: To setup ESP8266 as client send the data to the website for graphical plotting

To set up client and send data over the website

AT+RST (restarts the module. Wait for “ready”)

AT+CWMODE=3 (3- AP, STA modes simultaneously)

AT+CWLAP (displays list of available Wi-Fi networks)

AT+CWJAP=”AP_name”,”AP_password” (to join a Wi-Fi network)

AT+CIPSTART=”TCP”,”api.thingspeak.com”,80 (setup TCP connection & link of the data for download)

Rearrange the URL from Thinspeak:

https://api.thingspeak.com/update?api_key=1LDMK3P2KGOALMVQ&field1=0 to

GET /update?api_key=1LDMK3P2KGOALMVQ&field1=5

<HTTP/1.0\r\nHost:api.thingspeak.com\r\n\r\n>

From <http://www.lettercount.com/> find out the number of characters (number of characters in

GET /apps/thinghttp/send_request?api_key=3FWU2IGEA0Z3F3Y9

<HTTP/1.0\r\nHost:api.thingspeak.com\r\n\r\n> are 85)

AT+CIPSEND=95

On receiving “>” as output, type

GET /update?api_key=1LDMK3P2KGOALMVQ&field1=5

<HTTP/1.0\r\nHost:api.thingspeak.com\r\n\r\n>

field1={data} to be displayed on the website

