Battery mode:
ESP8266 in deep sleep between measurements

5V powered mode:
Wi-Fi access point + web interface enabled

+3V3
J4
BMA280 module
1
2
GND
3
4
SCE   5
SDO   6

J6
Soil Humidity Sensor
+3V3
1
2
DO
3
GND
4
A0

GND
J3
DS1307 RTC module
+3V3
1
2
3
4
D
5

D0 Deep sleep wake
→ connect to RST

RST
SCL
SDA

NodeMCU Board Pin Order (USB at Top)

A0   D0
GND   D1
VU   D2
S3   D3
S2   D4
S1   3V3
SC   GND
SO   D5   SCK
MISO   D6   MISO
SK   D7   MOSI
GND   D8   MOSI
3V3   RX   CS
EN   TX
RST   GND
GND   3V3
VIN

GND
+3V3
1
2
CS   3
MOSI   4
SCK   5
MISO   6
J5
Micro SD module

SCK
MISO
MOSI
CS

RST
FROM BATTERY OR
POWER SUPPLY
−
+

VIN → 4.5−10 V input (through onboard regulator)

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