

All resistors and capacitors are SMD3216m for easy solderability

Button triggers reset of MCU and disables the 3.0V regulator

Arduio Nano Pins:

- RX
- TX
- D2...WiFi enable (out)
- D3...Button (In, no pullup)
- D4...WiFi GPIO0
- D5...WiFi GPIO2
- D6...WiFi PowerDown\ (out)
- D7...WiFi Reset\ (out)
- D8...Temperature (in, no pullup)
- D9...EnableSensors\ (out)
- D10...EnableDischarge (out)
- MOSI
- MISO
- SCK

Additional Hardware:

- Item1 Solar Panel 80x80x5mm, laminated glass, 6V/100mA
- Item Solar-80
- Item2 Battery, 3.6V, Li-Ion
- Item Batt-Li-WT
- Item3 PCB 36x51x1.5mm, 2x35um Cu, 2x Silk, 2x Mask
- Item PCB-WolkenThermometerV1.0
- Item4 SMD Stencil, 100um stainless steel, 100x100mm
- Item Stencil-WolkenThermometerV1.0
- Item9 Temperature Sensor, Dallas DS18B20
- Item DS18B20

Open Source Hardware
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www.zeilhofer.co.at/wolke
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Sheet: /
File: wifi-sensor.sch

Title: WolkenThermometer

Size: A4 Date: 2015-04-08 Rev: V1.0
KiCad E.D.A. kicad 0.201503291001+554722ubuntu14.10.1-product Id: 1/1

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WiFi Module
ESP8266 V1

Item5	M3 nut, self-retaining, for distance holder
Item	M3-A2-SS
Item6	M3 nut, self-retaining, for distance holder
Item	M3-A2-SS
Item7	M3 nut, self-retaining, for distance holder
Item	M3-A2-SS
Item8	M3 nut, self-retaining, for distance holder
Item	M3-A2-SS

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