IC3

WIND	25	25
TEMP	26	26
LED1	27	27
LED2	15	15
	14	14
	4	4
3V3		3V3
V5V	5V	5V
GND	G1	GND1
BAT	BAT	BAT

TINYPICO_ESP32"

GND2	G2	GND
RST		RST	RESET
33	33	BTN1
32	32	BTN2
21	21	SDA
22	22	SCL
5	5	
18	18	
19	19	
23	23	

USB

IC1

MCP2300x

V5V 18

/RST — VCC
INT
SDA 2 — SDA
SCL 1 — SCL
A0 5
A1 4
A2 3
GND

GP0 10 — R4 470 N 1
GP1 11 — R5 470 NF 2
GP2 12 — R6 470 E 3
GP3 13 — R7 470 SE 4
GP4 14 — R8 470 S 5
GP5 15 — R9 470 SW 6
GP6 16 — R10 470 W 7
GP7 17 — R11 470 NW 8
9

J2

IC2
TPS62112RSAR

6.8uH L$
R1 1M

GND	1	PGND_1
V12V	2	VIN_1
	3	VIN_2
	4	EN

EP PGND_2 SW_2 SW_1 PG
17 16 15 14 13

GND_2 12 — GND
GND_1 11
FB 10 — V5V
AGND 9

SYNC LBO LBI VINA
5 6 7 8

22uF C6
1uf C5
GND

V12V R14 1K D2
V5V R15 330 D1
GND

GND 1
BAT 2
J4

+12V V12V

2
1

10uF C1

GND

V12V
J6

V5V
J7

RESET — RESET
BTN1 — BTN1
BTN2 — BTN2
GND

1
2
3
4
J8

WIND — R12 470
TEMP — R13 470

C3 0.1uF C4 0.1uF

1
2
3
4
J3

GND

LED1 — R2 150
LED2 — R3 150
GND

1
2
3
4
J5

Title: WeatherFlow-Gauges

Description:
ESP32 based receiver to display the current temperature and wind conditions measured by the WeatherFlow Tempest Station, transmitted over the LAN.

Designed by: (c) Lincoln Lavoie

License: Apache License v2.0

Date: August 8, 2021

Revision: 1.0

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