ArduinoPi Weather Station

Rain Fall

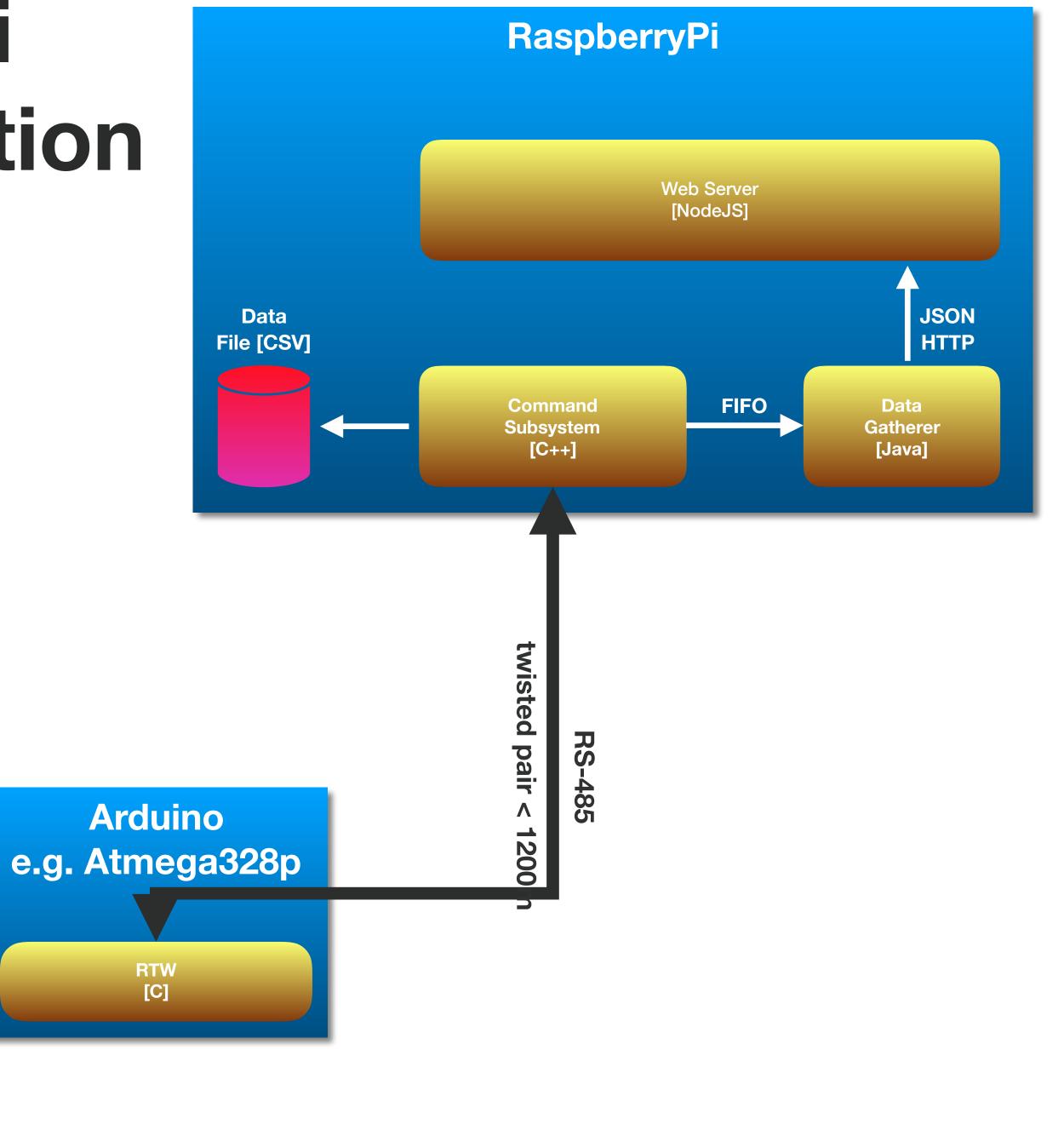
Humidity

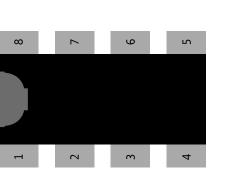
0 - 100%

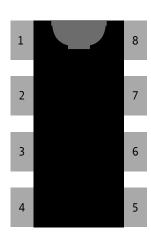
Temperature

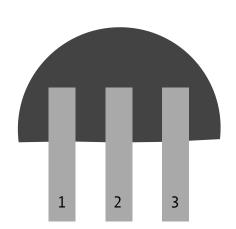
Air Pressure

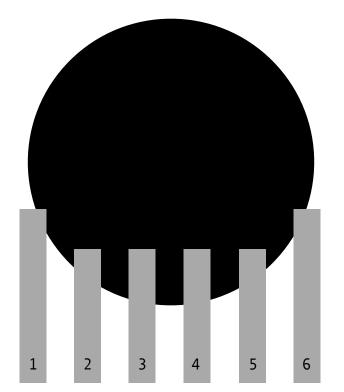
Wind Speed

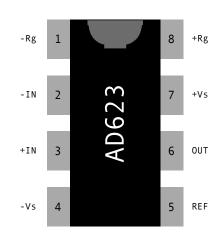


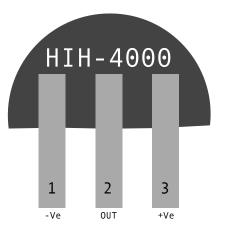


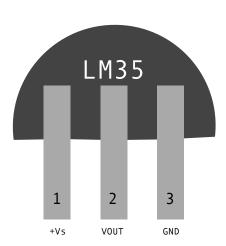


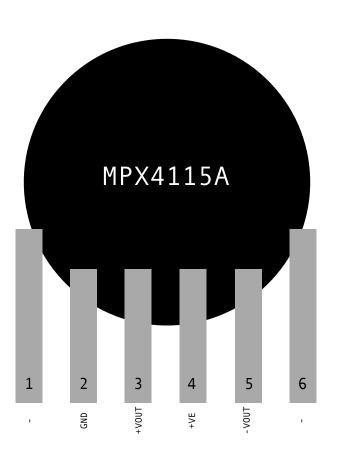






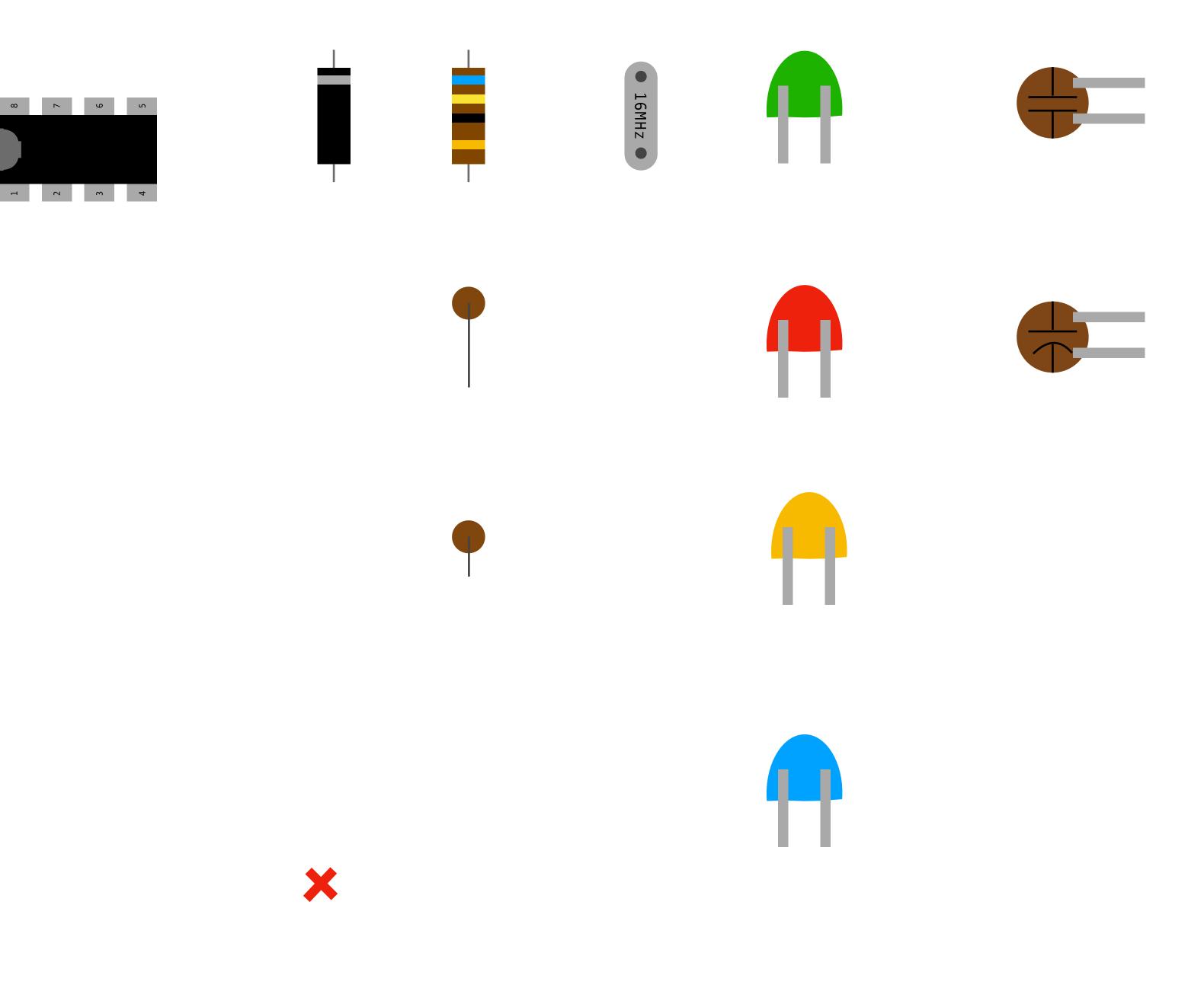


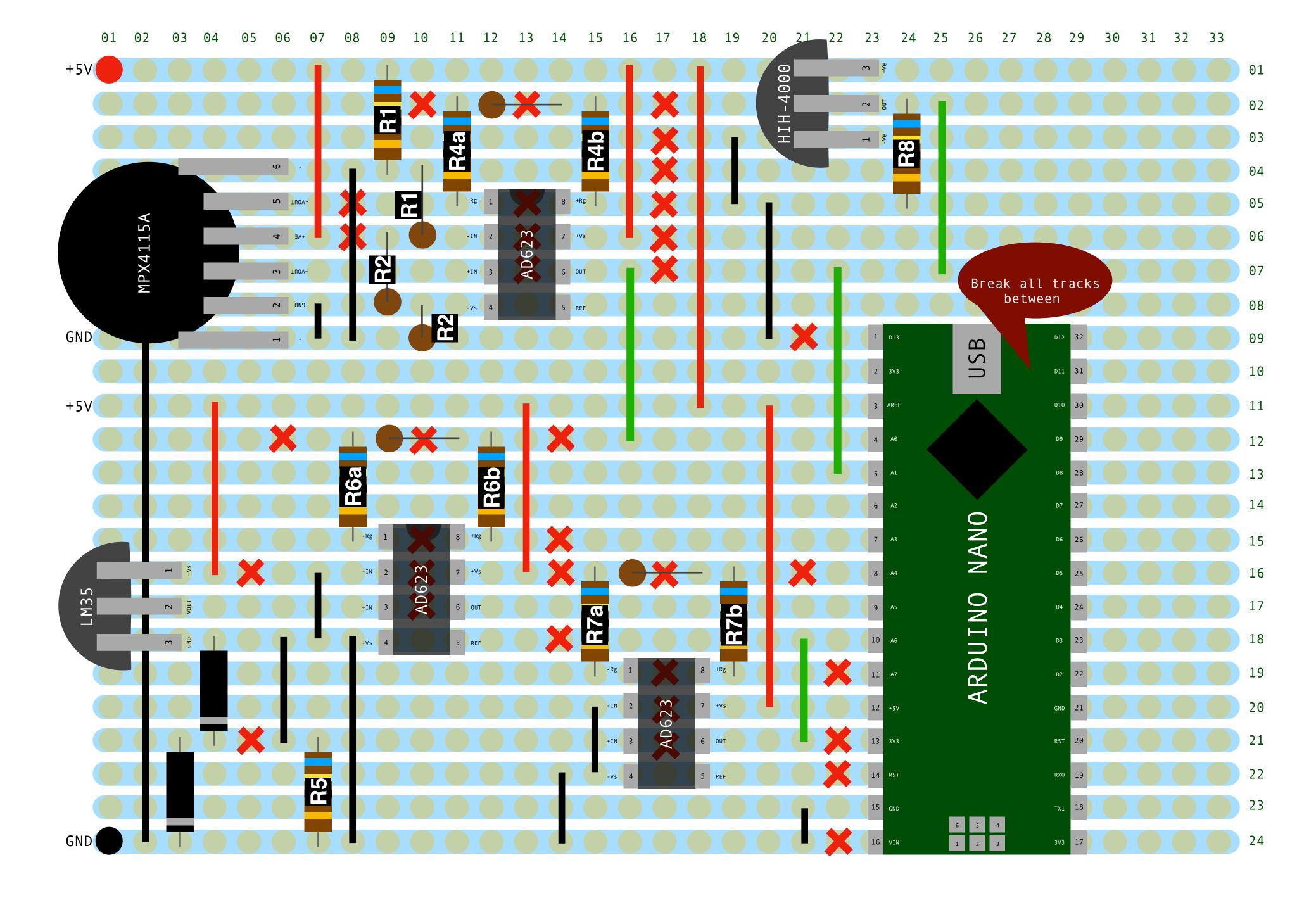


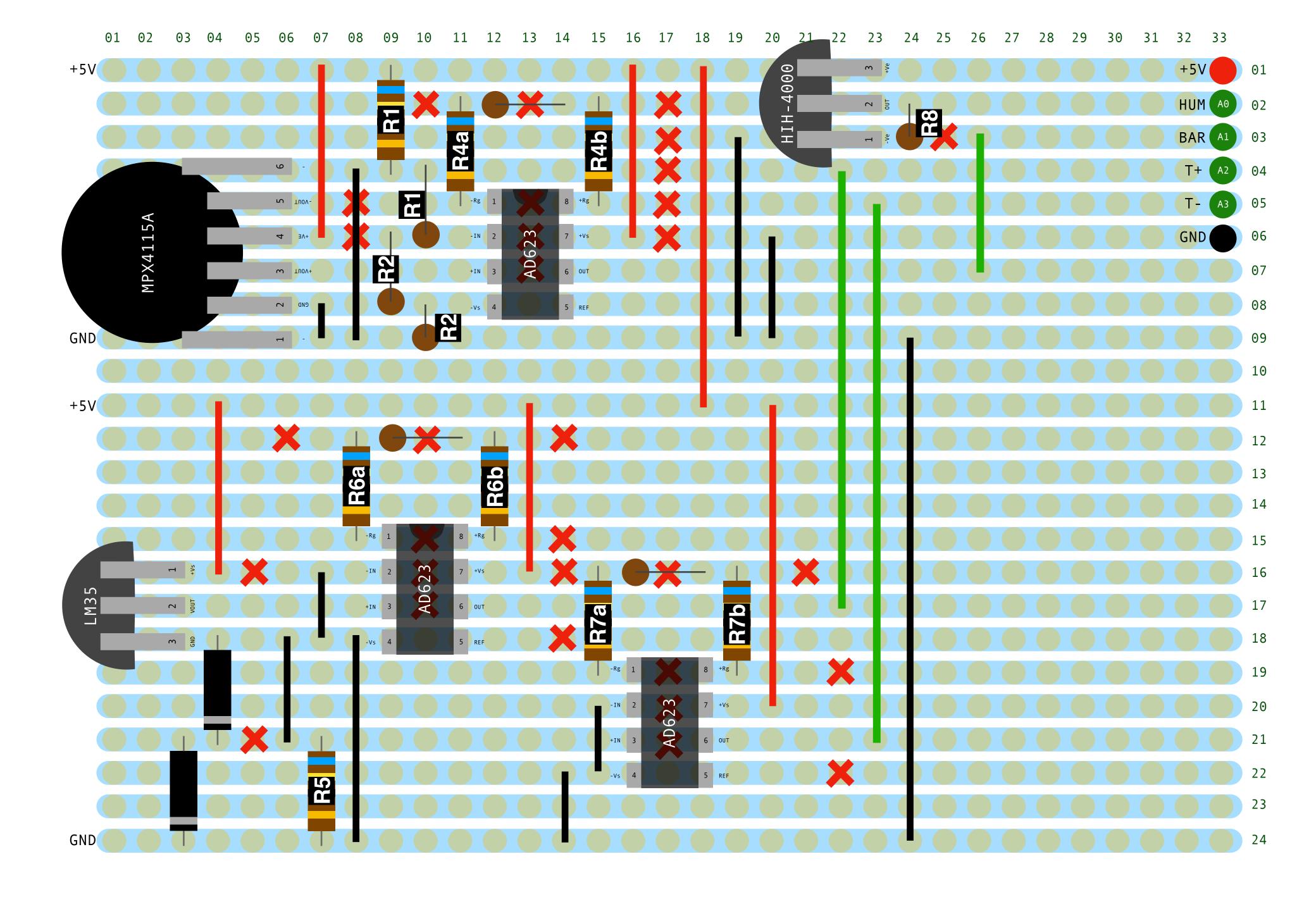


1	D13	\sim	D12	32
2	3V3	USB	D11	31
3	AREF		D10	30
4	Αθ		D9	29
5	A1		D8	28
6	A2	0	D7	27
7	A3	NANO	D6	26
8	A4	Ž	D5	25
9	A5	NO	D4	24
10	A6	DNINO	D3	23
11	A7	RD	D2	22
12	+5V	A	GND	21
13	3V3		RST	20
14	RST		RXO	19
15	GND		TX1	18
16	VIN	6 5 4 1 2 3	3V3	17

1	RST		ADC5	28
2	RX		ADC4	27
3	TX		ADC3	26
4	INT0		ADC2	25
5	INT1		ADC1	24
6	PD4	AT	ADC0	23
7	VCC	MEG	GND	22
8	GND	A32	AREF	21
9	XTAL1	&P	AVCC	20
10	XTAL2		SCK	19
11	PD5		MISO	18
12	PD6		MOSI	17
13	PD7		PB2	16
1.4	PRA		PR1	4.5

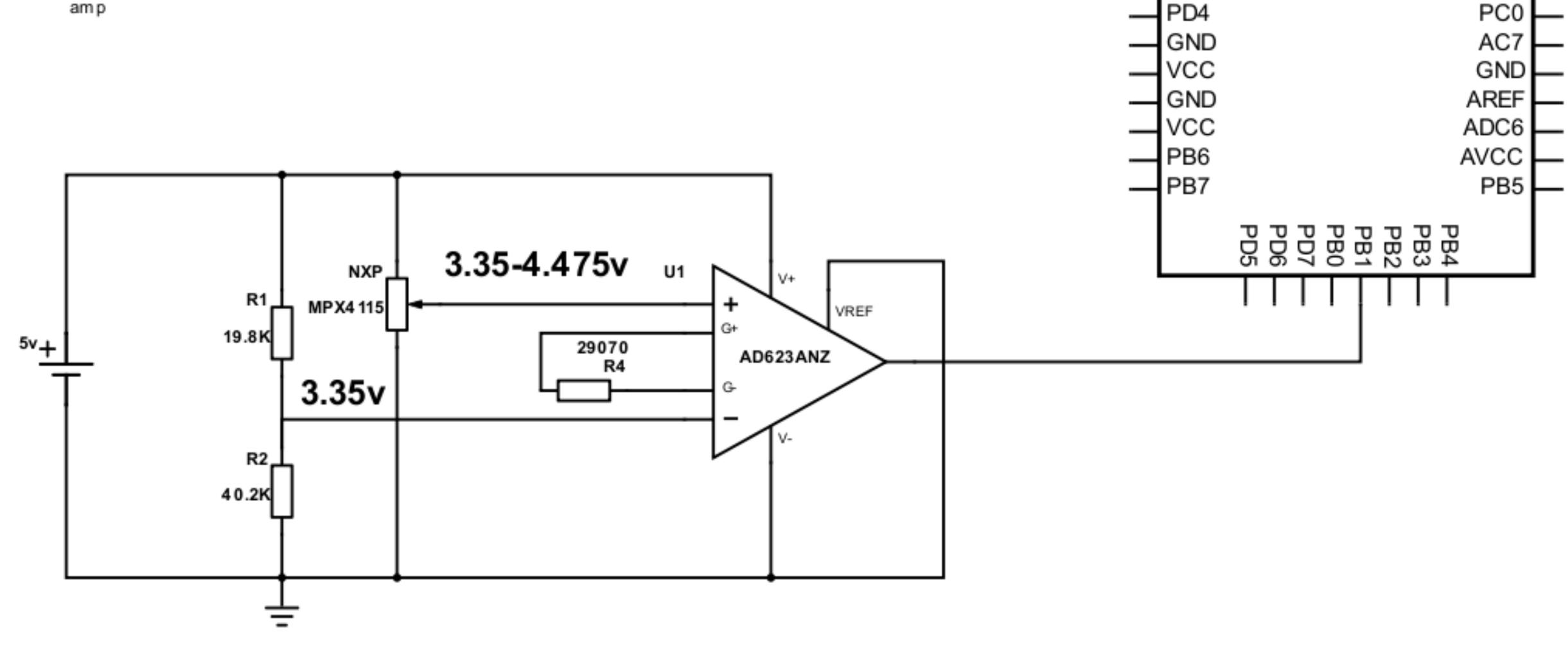






Pressure Circuit

MPX4115 pressure sensor linked through an AD623 integration amp

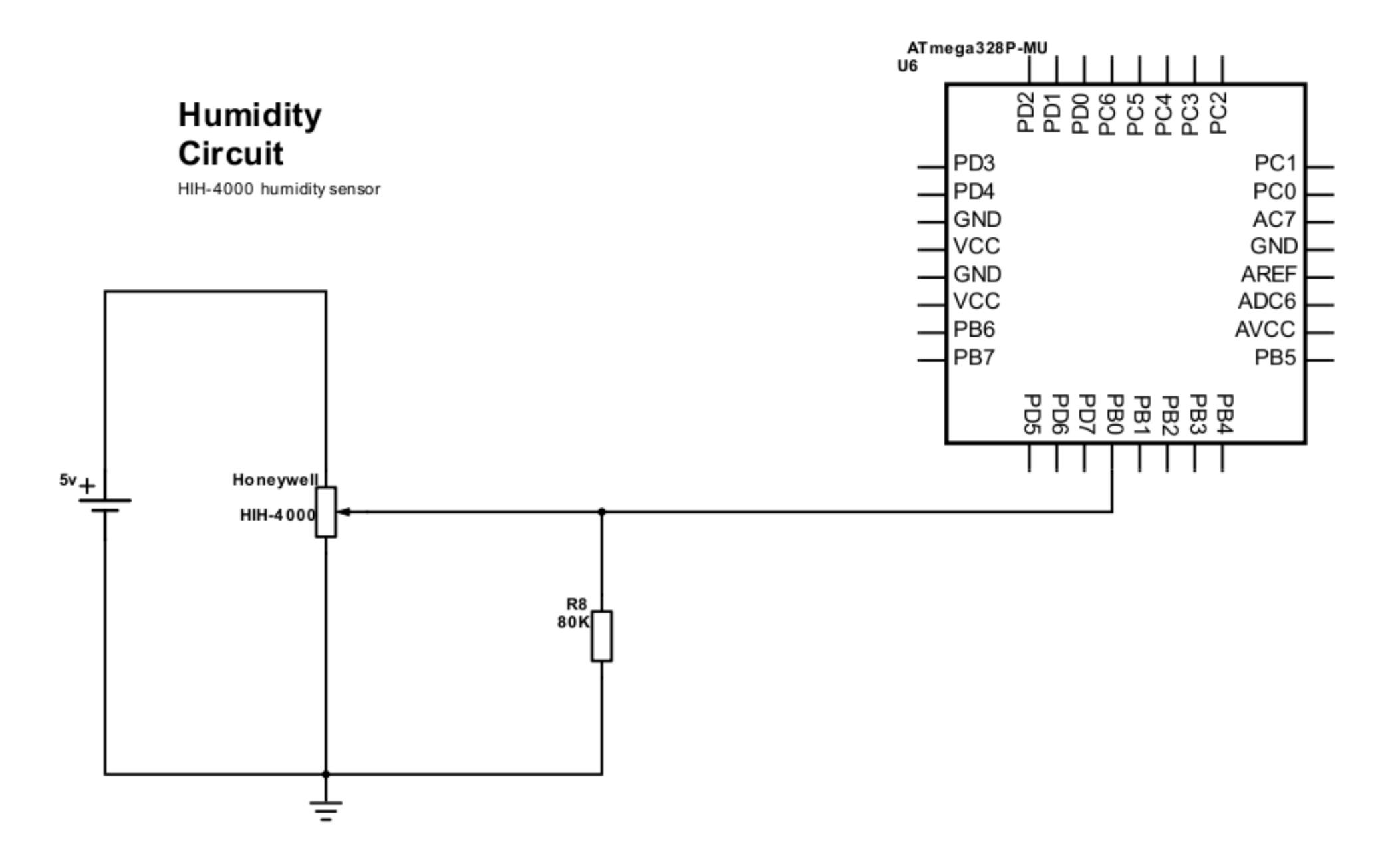


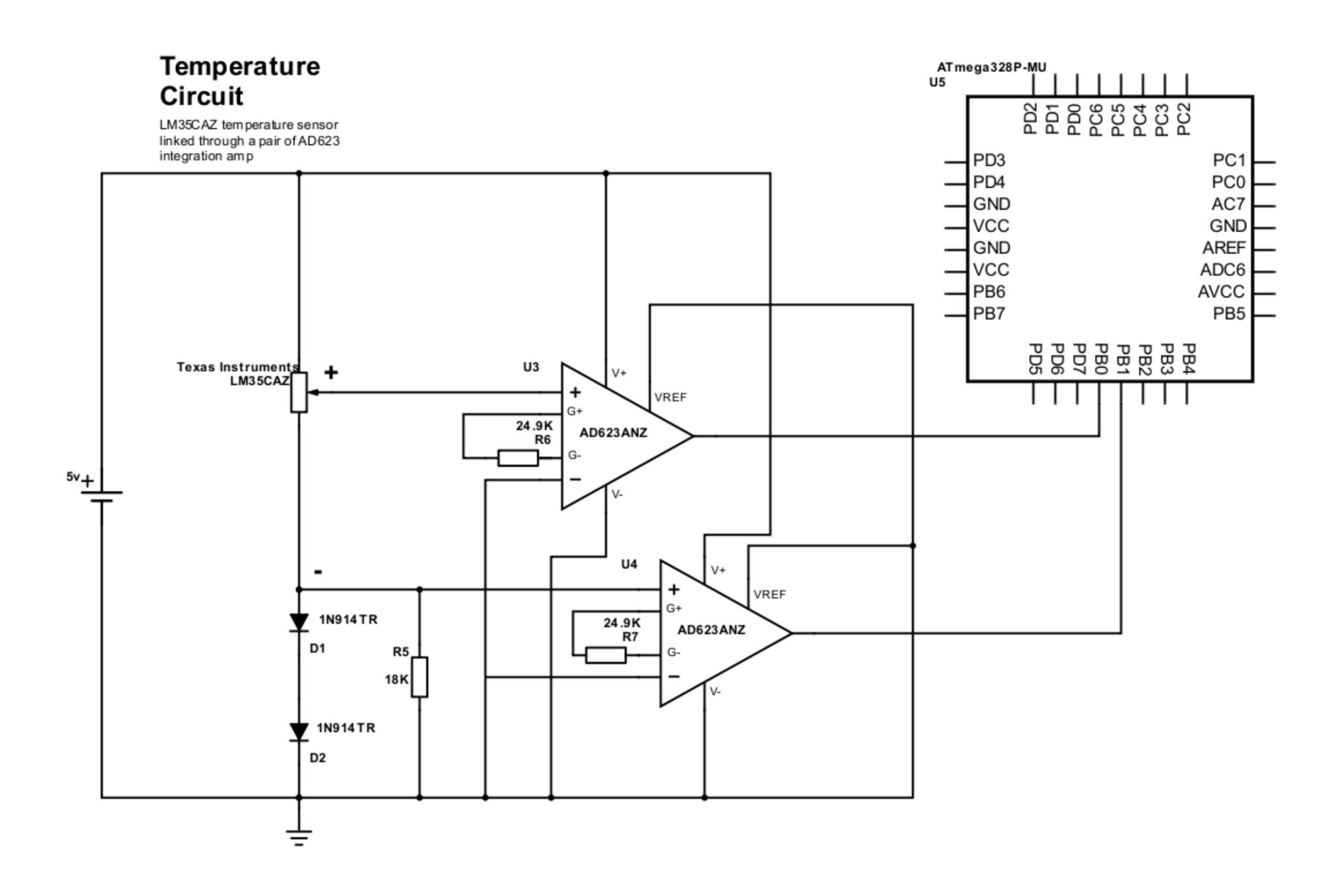
ATmega328P-MU

PD3

PC6 PC6 PC5 PC3 PC3

PC1





Resistor Values

• R1 (19.8K Ω) 18K Ω + 1.8K Ω

• R2 (40.2K Ω) 39K Ω + 1.2K Ω

• R4 (29070 Ω) 28K Ω + 1.8K Ω + 270 Ω

• R5 (18K Ω) 18K Ω

• R6 (24.9K Ω) 18K Ω + 2.2K Ω + 4.7K Ω

• R7 (24.9K Ω) 18K Ω + 2.2K Ω + 4.7K Ω

R8 (80ΚΩ)
82ΚΩ

