

Rancilio S27 - Owners Diary

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0.1 General Information

- Measurements: 380 x 465 x 515 mm (WxHxD)
- Power draw: 230V, 50Hz, 2050W
- Boiler capacity: 3.9L
- Weight: 35 kg

0.2 Volumetrics

0.2.1 Setting the volumetrics

1. Press and hold the right most button (the one which doesn't picture a cup) until water stops flowing out of the group head, and it starts blinking to enter programming mode
2. Put in your portafilter
3. Press the button you want to program
4. Press the rightmost button again to stop the flow and store the value
5. Press the rightmost button again to exit programming mode

0.2.2 Standard Deviation

When using the volumetrics to pull a 18g in / 36g out shot of espresso, I observed a standard deviation of just 2.02g, which is pretty good.

0.2.3 Grounding of the Flowmeter

I ran into a small issue where the Flowmeter wouldn't report flow in an understandable and reproducible way.

This happened because some scaling had occurred on the flowmeter itself due to a brittle O-ring. Once I replaced it and sanded down the Flowmeter, so the grounding wire made contact to ground again, the flowmeter works flawlessly once more.

0.3 Hardware Exploration

0.3.1 Pinout of the Keypad

Pin	Name	Comment
1	GND Continous LED	
2	GND Dose 4 LED	
3	GND Dose 3 LED	
4	GND Dose 2 LED	
5	GND Dose 1 LED	

Pin	Name	Comment
6	Button Dose 3 1	
7	Button Dose 3 2	
8	Button Dose 2	
9	Button Dose 1	
10	Button Dose 4	
11	Button Continuous	
12	Common Anode for the LEDs	+3.3V / +5V => Needs to be checked

Doses are counted from the left of the keypad to the right