

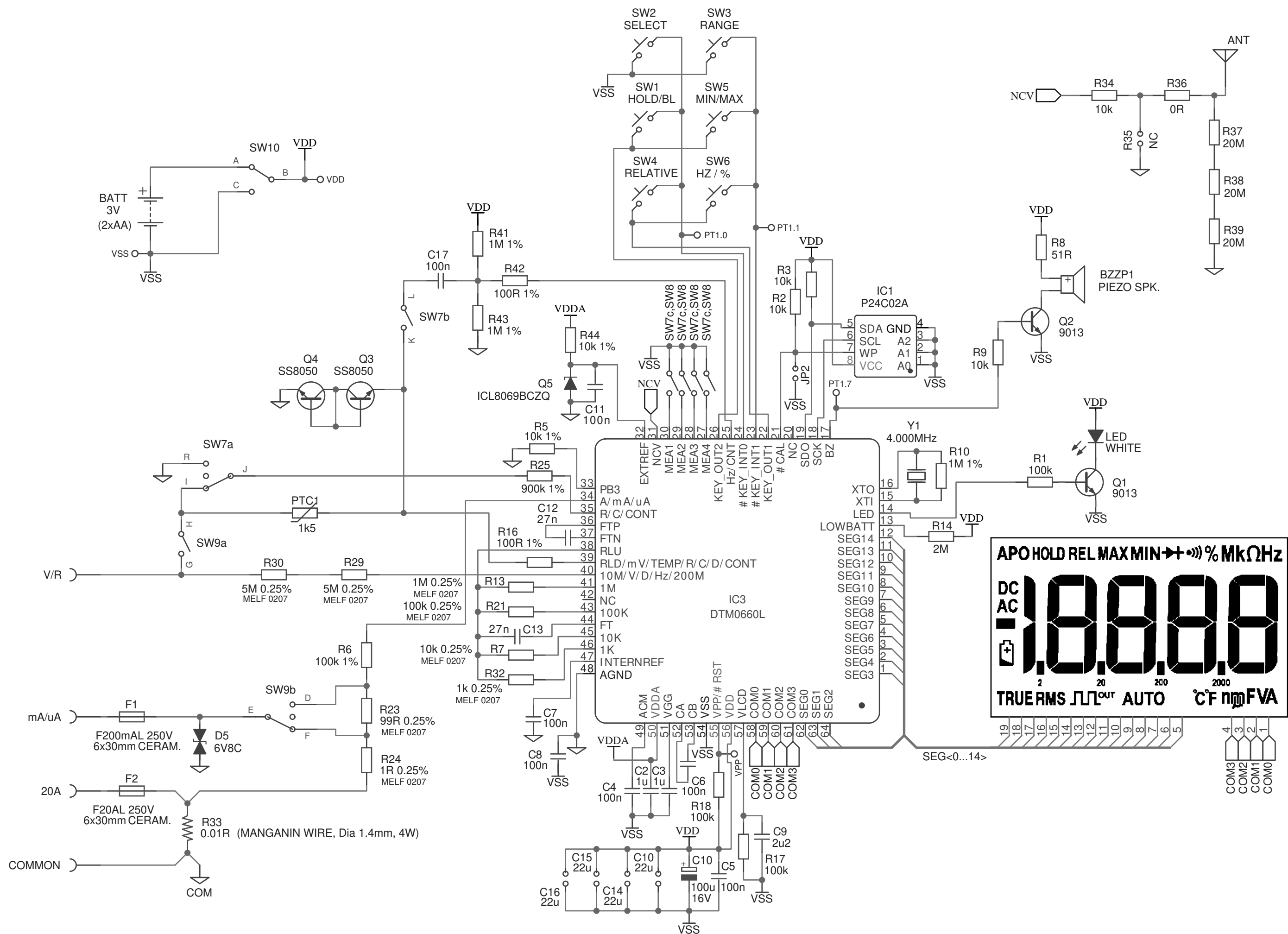
		SW7c, SW8				SW10	SW9a	SW7a	SW9b	SW7b			
						Power							
		4-bit Func. Encoder				On	Off	Multifunc.	mA	μA	Hz		
No.	Func.	MEA1	MEA2	MEA3	MEA4	BA	BC	HG	JI	JR	EF	ED	LK
1	Off				0 ¹⁾	on ²⁾				on			
2	Vac	0				on				on			
3	Vdc				0	on				on			
4	mV					on		on	on				
5	ohm			0		on		on	on				
6	Hz		0			on		on					on
7	A	0			0	on							
8	mA	0		0		on					on		
9	uA		0		0	on						on	
10	NCV			0	0	on							

Truth table for mechanical rotary switch for all 4 sections (switches).

- ¹⁾ '0' - low state, otherwise high state or '1' as empty field
²⁾ 'on' - connected state, otherwise unconnected or 'off' as empty field

Some additional remarks:

- factory programming fixture with pogo-pins meets the following 6 test points on PCB: VPP, PT1.0, PT1.1, PT3.7, VDD, VSS
- all resistors are 0603 (1/10W) ± 5% unless otherwise marked
- all possible 60 segments (full driver capacity) used by LCD
- mV range with very high input impedance of ~100G (Giga Ohms)
- for better ADC noise immunity replace C10 100uF electrol. cap. with C10, C14, C15, C16 (4x 22uF) ceramics
- if you don't need NCV, for better ADC noise immunity populate R35 '0 ohm' resistor or short-circuit with solder
- finally, the current shunt R33 in the diagram is correctly sampled in the Kelvin connection, which unfortunately is not the case on the original PCB (a design error that should have been addressed with some next revision, which never happened)



(C10, C14, C15, C16 - CERAM., OPTIONAL - UNPOPULATED)