

Sheet: power  
Provides VREF and +5VA  
File: power.sch

TODD:  
\* Filtre entre AD8210 et LTC2400  
\* Decider DB9 GND connection  
\* Check DCDC cap footprints

No input filtering because load is not inductive (AD8210 data sheet p.13)

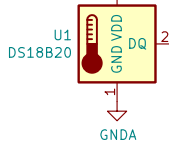
$V_{out} = 2.5V = 20 \cdot I_{shunt} \cdot R_{shunt}$   
See AD8210 datasheet "Splitting an external reference"

Max Rshunt defined by max  $V_{out}$   
 $I_{shunt} < 100A$   
 $V_{out} = I_{shunt} \cdot R_{shunt} \cdot 20 < 5V$   
 $R_{shunt} < 5/20/100 = 25 m\Omega$

Max Rshunt defined by max power dissipation  
 $P_{shunt} = R_{shunt} \cdot I_{shunt}^2 < 5W$   
 $R_{shunt} < 5/10000 = 5 m\Omega$

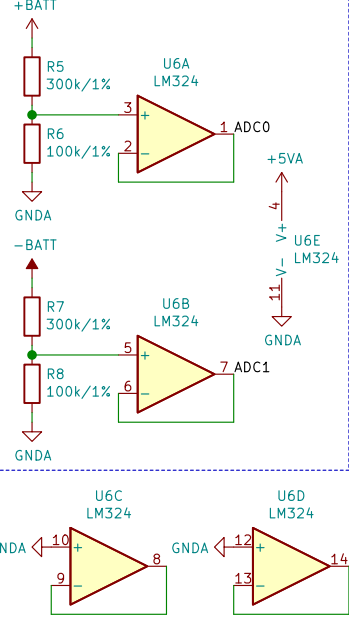
### MESURE TEMPERATURE

Dans le bac des batteries



### V BAT MEASURE

Diviseur tension facteur=4  
LM324 limite max 5V protection ATmega

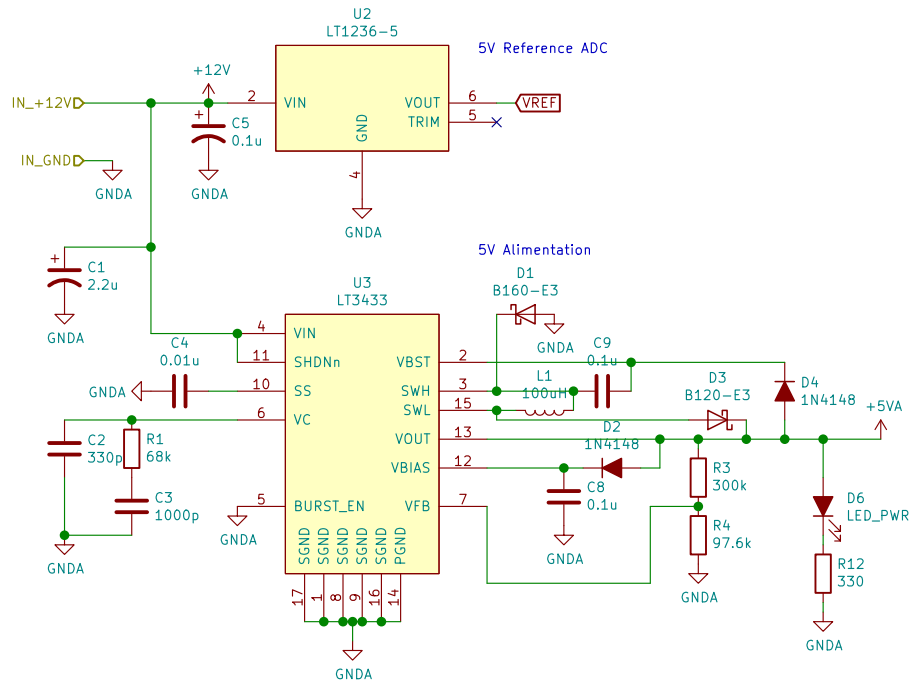


TTL to RS232 level conversion  
Deux ports: glutte + raspi  
DTE usually male, DCE female  
relay front is a DCE

<b>HB9EGM</b>	
Sheet: /	
File: glutte-coulombcounter.sch	
<b>Title: Coulomb meter for Glutte Battery</b>	
Size: A4	Date: 2019-10-18
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# POWER

Provides VREF and +5VA



HB9EGM

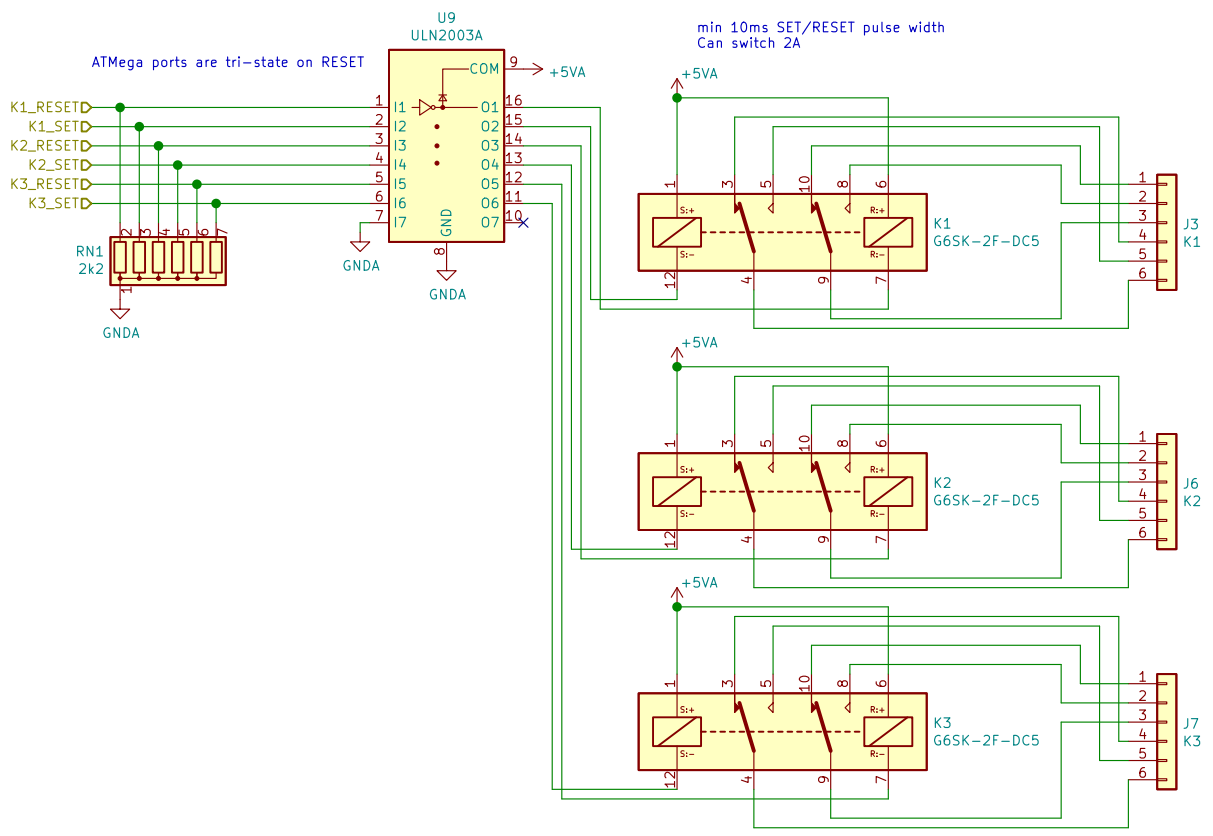
Sheet: /power/  
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**Title: Coulomb meter for Glutte Battery**

Size: A4 Date: 2019-10-18

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Rev:  
Id: 2/3



Sheet: /Relays/		Date: 2019-10-18	
File: relays.sch		Rev:	
Size: A4	KiCad E.D.A. kicad 5.1.5	Id: 3/3	