with S.V.

- We will be using a simulator box with KTD a Timulate toppe with a slide switch - It changes resistance as you change the Switch.

INLLY

- The amp used to measure the voltage difference across the burge.

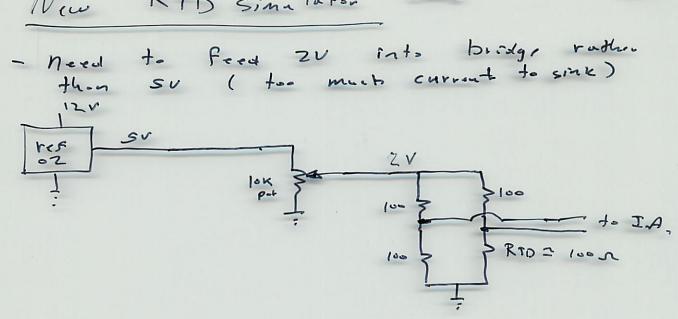
Precitedus - Calculate RTD R @ 6° + 100°C - Place them in a bridge + calculate builge output for those impats. - Place these numbers into an instrumentation amp + set up fin I sv.

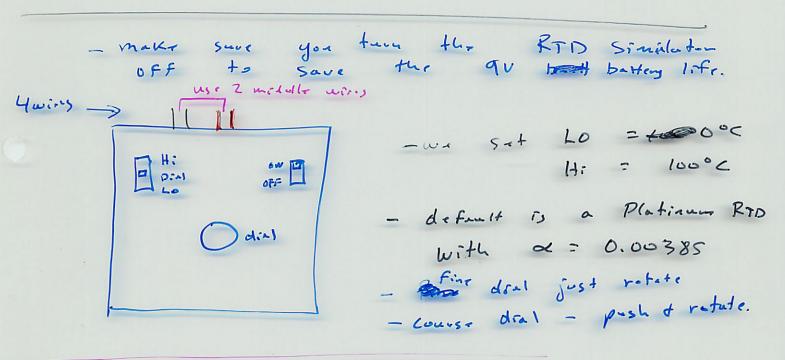
- For the new RTD smillet .. need 2V as it cannot some current

Bridge output range 0°C = 0V 100°C = 404nV

Cain = Drout = Drour A Bridge out Svin

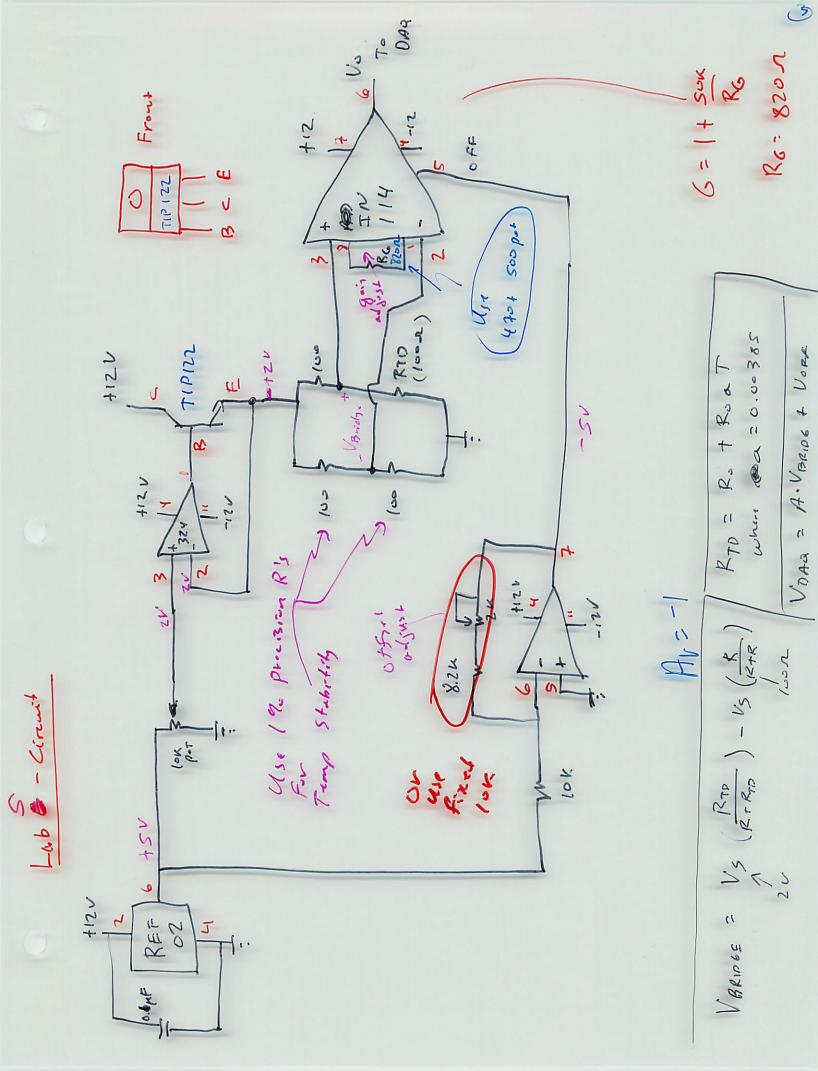






Demo: 1) Set to Lo & measure 160 x on Dmm

2) Set to Ho & Measure RT on Dmm $R_{T} = R_{0} (1 + \alpha T)$ $= 100 n (1 + 0.00385 \cdot (100-0))$ = 100 (1.385) = 138.5 n



VB = (Vot5)

Lab 5 2012 Handout

