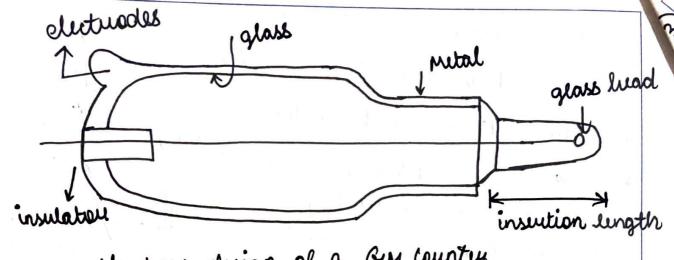
-	various types of theumocouples			
Type	Positive Moterial	Negetine Maturial	Sensiblity at a	10°C Romae of tempurature (°C)
В	Platinum 6.1. Phod	Platinum 30.1. phodiur	n 1.2	0 +0 1820
С	Tungsten 5.1.	Tungsten 26.1. Pheniun	2 19.7 (600°C)	0 +0 2320
D	Tungster 3.1.	Turgster 26.1.  phenium	19.7 (600°C)	0 +0 2320
E	Chesmel (10.1.	Constantan (45		- 270 40 1000
G	Tungster	Tungstin 26./. Phenium	19.7 (600°C)	0 +0 2320
7	Iron	Constantan (45.)	En. L.	-210 to 760
K	chienel (10.).	Alumel (10% Al & Silicon)	39.4	-270 to 1372
New	Nicuosal	Nisil	39	-270 to 400
R	Platinium 13.1.	platinum	5.8	-50 to 1768
S	Platinum 100% perodium	Platinum	5.9	-50 to 1768
T	Copper	Constantan	38.7	270 to 400

3) Namour type



Needle type durign of a GIM counter

\* The GIM tube is filled with a gas such as Nean, Argon ou Helium at the puessure being the lowest

Lunit used is CPM (Courts pui Minute)

\*This style of tube would have a small window 1) End Window

\* This window would be helpful in ionizing at one of it ends

particles that could travel to easily

a) Cylinduical type:

\* Radiation is received by the side walls

3) Needle type -> Insertion in a nameous channel is require

Aduantages

Ensure safety in all operations \* do not measure energy. \* prement nuclear accidents

highly sensitive

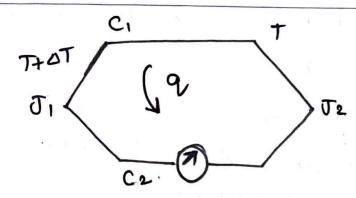
<u>Peading</u> is accurate useful in expanding the scope lifetime

of Nucleus energy

Dis-aduantages

\* deads to deduction in B

Construction and mouking of Semiconductor brased sensous for mean temp. \* Theumaemb temperature sensors are theumocouples which are most outersively used in industries, own a mide namge of temperatures \* It was discounted by J. Seebeck \* Suluck effect is when electricity is weated between a theumocouple when the ends are subjected to a temperature difference between them. DE= dIDT a d, → Seelreck coefficient DT -> diffuence of Temperature b/m tuo junctions DE -> open circuit emf 



\* When two conductances C1 and C2 of different compositions aux made up into a closed Electrical circuit. A small current and flows through it if one of the junction J. has a different temperature than the other junction J2.

\* The Current is driven as an Emf which is generated b/u these two junctions because of temperature difference \* The emb is called the theumorlucture potential on the Sulverk emf which is dependent on the compositions of

\* The difference of temp. DT with the polarity depending on the sign of DT.

$$d_1 = \frac{2k}{T} \ln (PlP_0)$$
  
 $\lambda \rightarrow constant approximation value
 $P_0 \rightarrow 5 \times 10^{-6} \Omega m$$