Measuring Temperature Dr K M Hock thermounter: how does it work? -liquid expands When heated - Volume moves up narrow tube - put marks on tube to read T e.g. resistance of metal 1 When hot-Electric Current L can use to find T. e.g. themocouple

junction (1) copper hickel cold junction

-2 wires of different metals - T difference at junctions 1 U1 find T

Fixed Points

Dr K M Hock

to put the maker know where 10°C, 20°C, ...?

Post if in melting ice and mark "
for 0°C-

Point

Steam 100°C

Then put in Steam and mark for LOV°C

SS Jear

Then put 99 marks in between to give Celsius scale.

٥٠٠

steam point, 100°C

fixed points.

Dr K M Hock Thermocouple constantan - Wires of 2 metals Joined I difference at unctions -> Voltage Jo measure [: - leave | junction at room! - put other junction in hot place - up to lood'C IDBO C - Voltage produced tells] Compare with Mercury in Glass measures much higher 1 2. responds much quicter - just worm small junction - not all mercury in butb.