

**WATER PROOF THERMOCOUPLE**  
**FOR**  
**FERMENTING MACHINES**

Profitability of tea gardens depend on the quality of finished tea produced.

Quality can be achieved by closely monitoring all aspects of tea manufacture from plucking to packing.

Fermentation of CTC cut leaves by FLOOR, in GUMLAH or in FERMENTING MACHINE is to be achieved by properly maintaining the RELATIVE HUMIDITY and TEMPERATURE. Inaccurate or faulty readings of temperature and RH causes degradation of flavours, brightness and briskness of tea.

Relative Humidity of 85% to 95% and temperature of 27° C to 30° C provide the best condition for fermentation.

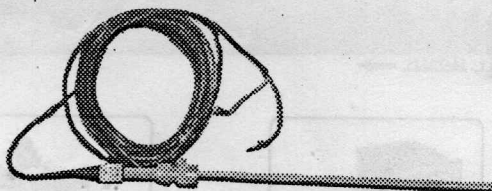
At every stage / module of the FERMENTING MACHINE temperature is to be monitored so that nature of fermentation can be assessed.

Presently most of the factories are using Continuous Fermenting Machines for oxidation.

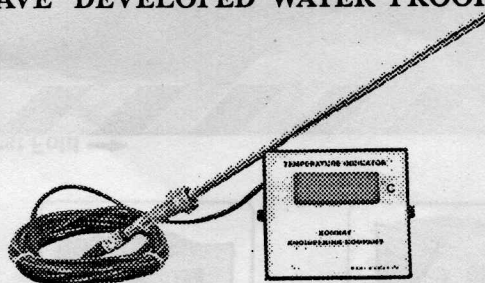
While cleaning the fermenting machine with water jet, water enters into the thermocouple through the head and the cable entry points. Water damages the sensing element which gets oxidized and corroded. Temperature meter will show erroneous readings or no readings at all due to the faulty thermocouple, which many factory personnel are unable to detect. They replace temperature meters which normally is working properly.

If the compensating cable is kept exposed in water iron element of the Iron-constantan compensating cable get rusted and temperature meter will show erroneous temperature readings.

**TO OVERCOME THIS PROBLEM WE HAVE DEVELOPED WATER PROOF Fe-K or "J" TYPE THERMOCOUPLES.**



**WATER PROOF THERMOCOUPLE**



**TEMPERATURE METER WITH WATER PROOF THERMOCOUPLE**

Our make ( BEC Make) of thermocouples are having 8 mm OD x 300 mm Long with adjustable connector and waterproof head and sheathing wire length of 4 mtrs with crimped fork terminals which can be connected directly to the meter. (If extra cable length is needed it can be supplied as per order. )

*These thermocouples are guaranteed for 18 months and is developed and quality checked by an Ex. Kilburn Engineer.*

*Remember we were the first to introduced 4 Point Digital Temperature Meters for monitoring all the 4 temperature at the same time in the VFBD and makers of a number of user friendly meters for tea industry.*

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