



The Tesca Temperature Controller configuration is used for temperature process system closed loop and open loop analysis. RTD temperature sensor is part of the arrangement. The water passes via the Rota-meter and Process tank, which is equipped with a heating coil. A Thirstier drive is in charge of the heater. The PID controller is coupled to the Thirstier drive. The water flow can be controlled using the manual control valve. The system is installed on a tabletop model and includes all required piping. Water at a rate of about 100 LPH must be delivered outside to a system. DELTA PLC with RS-232 ports make up the electronic panel.

SCADA Software is provided for experimentation, Control action like PD, PI, PID can be conducted. Online data acquisition, trend plot are the salient feature of the system. Off line analysis, Printing of data graph can be done easily. The software is compatible with windows 8 and above operating system. Detail Manual will be provided to conduct.

Specification:

- **Temperature Transmitter:**
 - RTD(PT-100)
- **Capacity:**
 - 0-100 deg C Output-4-20mA
- **Water Heater:**
 - 3kW at 1 to 2 LPM Maximum 100 degree centigrade.
- **Water Circulation:**
 - FHP pump with necessary piping (Flexible type).

Note: Specifications are subject to change.

- **Source Tank:**
 - SS Tank of capacity 20 ltrs (approximately)
- **Thirstier Card:**
 - Thirstier power controller capacity 3 KW, Input-4-20mA Output 0 to 230 V Ac.
- **Power:**
 - 230V 50 Hz.
- **Mounting:**
 - Mounted on a Powder coated metal frame (approximately 650X500X750 LXBXH)
- **Controller:**
 - PLC with SCADA based PID Software to control the process, control Action P,PI,PID. Trend plot with on line and off line, Printing and analysis.

Accessories(Optional):

- Digital Temperature Indicator with Retransmission output
- Hot air Oven of 12" x 12" (upto 200 Deg C) in lieu of Water Heater
- Personal computer with latest features.