TEMP CONTROL

By IAEC Yokogawa

MISSION :

"In this Temp Plant model and its textbook education help learners to enhance their understanding about the real world of control engineering and instrumentation. To inspire them become the practical people who can integrate his/her strong background of theory and practice together."

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Temp Control

General Information :

Temp Plant Model is simulation process plant for study and you can knowledge about Principle and type of thermocouple , knowledge principle and to structure of RTD , Thermowell , principle 2 , 3 ,4 wire configuration for apply to practical in industry in process control such as Temp.

Feature :

Modularized design oriented and safety for operation Easy to calibrate and maintenance

Systematic training media, in-depth coverage basic principles and advanced application fully coverage of :

1. Process Variable & Measurement
2. Smart Transmitter , Recorder and Controller Operation , Configuration & Calibration
3. Cascade Control
4. Feed Back Control (PID Control)

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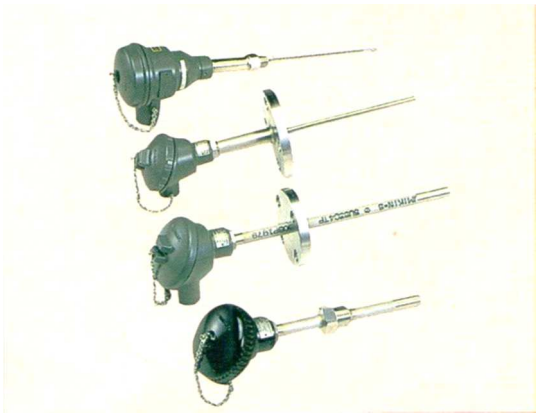
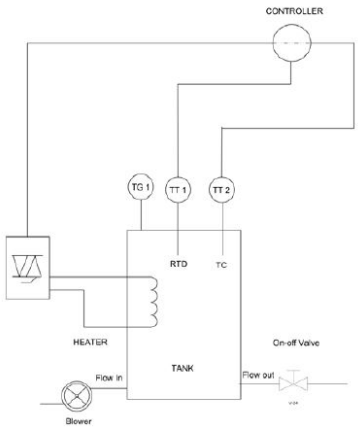
Technical Specification :

Type	Range	Accuracy (%)
1. Immersion heater 1000 W (Tubular)	-	-
2. Temperature Transmitter 2 set - Transmitter with SIL 2 on IEC61508	4 - 20 mA , 10.5 to 32 VDC	±0.2
3. Thermocouple Type 1 set	- 40°C to +333°C +333°C to '+1200°C	±2.5°C ±0.0075°C
4. RTD Type 1 set	-	-
5. Digital Indicating Controller	AI 1-5 volt DC or 4-20 mA AO 4-20 mA	-





P & ID Diagram for Control

Temp Plant Model Using For :

- Increase knowledge of process control
- Gain Operating and maintenance experience, confidence, check fault diagnosis and corrective actions in case of process equipment malfunction.
- Increase operator awareness, skills and safety
- To know the strategies used to solving problems.
- Avoid the errors caused it easy to works.
- Improve working for performance and maximum success.
- Learn from the real device
- Trainer Experience