

Basic instrumentation engineering interview questions

What are the process Variable?

- Flow
- Pressure
- Temperature
- Level
- Quality i. e. % O₂, CO₂, pH etc.

Define all the process Variable and state their unit of measurement. ?

Flow: Defined as volume per unit of time at specified temperature and pressure. Conditions are generally measured by positive-displacement or rate meters.

Units : kg / hr , litter / min , gallon / min , m³ / hr , Nm³ / hr. { gases }

Pressure : Force acting per unit Area. $P = F/A$ Units : bar , Pascal , kg / cm² , lb / in².

** Level:** Different between two heights. Units : Meters, mm, cm, percentage.

Temperature: It is the degree of hotness or coldness of a body. Units : Degree Centigrade, Degree Fahrenheit, Degree Kelvin, Degree Rankine.

Quality: It deals with analysis. { pH, % CO₂, % O₂, Conductivity, Viscosity }.

Where is an Air to close and Air to open control valves used?

Air to close:

1. Reflux lines.
2. Cooling water lines.
3. Safety Relief services.

Air to open:

1. Feed lines.
2. Steam Service

What is Furnace Draft control?

Balanced draft boiler are generally used negative pressure of the furnace. When both the forced draft and the induced draft are used together, at some point in the system the pressure will be the same as that of the atmosphere.

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Sabine Zange



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