

Instrumentation interview Question-Answers

1. What Is Instrumentation?

Answer :

The technology which is used to measured and control the process system of plant is called instrumentation. It is branch of engineering.

2. What Is Reynolds Number?

Answer :

We know with help of reynolds number what type of flow in fluid.

3. Why Do We Use 4-20ma Signal Instead Of 0-10 Ma?

Answer :

To elevate zero so that we can come to know whether it is dead zero or from signal.

4. What Is The Difference Between Dry Leg And Wet Leg?

Answer :

Dry leg means in lab. And wet leg means in field

5. How Can We Calibrate A Positioner?

Answer :

A positioner is a device put into a valve to ensure that it is at a correct position of opening as per the control signal. An I/P converter only sends the opening/closing request to valve but can not confirm its position.

Positioner senses the valve opening through a position feedback link connected to valve stem which is its input signal. I/P converter output is its setpoint input. The difference between these two is the error signal based on which the positioner positions the valve to correct position to reduce error to zero. Hence positioner is nothing but a pneumatic feedback controller.

Controlled external supply air to positioner provides power to positioner to position a valve. Also positioner is used in a valve when valve operating signal range is different from I/P converter output range.

6. Explain What Is The Working Principle Of The Magnetic Meter?

Answer :

An electric potential is developed when a conductor is moved across the magnetic field. In most electrical machinery the conductor is a wire. The principle is equally applicable to a moving, electrically conductive liquid. The primary device of commercial magnetic meters consist of straight cylindrical electrically insulated tube with a pair of electrodes nearly flush with the tube walls and located at opposite end of a tube diameter. This device is limited to electrically conducting liquids. The magnetic meter is particularly suited to measurement of slurries and dirty fluids.

7. Tell Me The Mechanism Behind The Turbine Meter?

Basic Instrumentation Engineering Interview Question

Judd E. Hollander



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