1 :: How to write the program for single push button by using Ladder diagram?

1. Create a Push button
2. Connect a Counter series to PB
3. Create a compare button
4. Initialize 1 at one end
5. Counter output in another
6. Connect the Coil which has to be energized
7. Initialize 2 at one end
8. Counter output in another
9. Connect the Coil which has to be reenergized.

2 :: What is remote mount with MTA option? (In case of Dual Sensor Vortex Flowmeter, rosemount has written in its Catalog drawings)?

Remote mount with MTA means MTA connector for mounting remote connection. MTA is the Connector used for connection. Generally we called it MTA Connector. There are many types of MTA connector such as MTA 100connectors, Mta 156 connectors etc...

3 :: Why 4-20 mA signal is preferred over a 0-10V signal?

Generally in a transistor some amount of voltage is required for turning it on. This voltage is the cut in voltage. Up to this voltage the exists a nonlinearity in its characteristics. Beyond this cut in voltage the char. of transistor is linear. This nonlinear region lays between 0-4ma, beyond 4ma it linear. This is why 4-20 ma range is used.

4 :: Can we use a control valve without positioner?

Control valve can not be without positioner. The purpose of the positioner is to control the control valve stroke so as to keep the valve in desired position. The positioner receives signal from the controller, and send the boosted signal to the actuator to reach the desired position as and when the valve reaches the desired position the positioner cuts the boosted signal to the actuator and keeps the position.

5 :: What is Instrumentation Measurement?

Instrumentation can be used to measure certain field parameters (physical values):

These measured values include:

* pressure, either differential or static
* flow
* temperature - Temperature_measurement

* level - Level Measurement
* density
* viscosity
* radiation
* current
* voltage
* inductance
* capacitance
* frequency
* resistivity
* conductivity
* chemical composition
* chemical properties
* various physical properties

6 :: What is Instrumentation Control?

In addition to measuring field parameters, instrumentation is also responsible for providing the ability to modify some field parameters.

Some examples include:
Device Field Parameter(s)
Valve Flow, Pressure
Relay Voltage, Current
Solenoid Physical Location, Level
Circuit breaker Voltage, Current

7 :: What is Instrumentation Instrumentation engineering?

Instrumentation engineering is the engineering specialization focused on the principle and operation of measuring instruments which are used in design and configuration of automated systems in electrical, pneumatic domains etc. They typically work for industries with automated processes, such as chemical or manufacturing plants, with the goal of improving system productivity, reliability, safety, optimization and stability.

8 :: What is Instrumentation technologists and mechanics?

Instrumentation technologists, technicians and mechanics specialize in troubleshooting and repairing instruments and instrumentation systems. This trade is so intertwined with electricians, pipefitters, power engineers, and engineering companies, that one can find him/herself in extremely diverse working situations. An over-arching term, "Instrument Fitter" is often used to describe people in this field, regardless of any specialization. oo nga.

9 :: Difference between DCS and PLC including date processing and architecture.

If we have more I/o's in digital signals than analogue signals normally we choose DCS....and vice versa.