

Instrumentation: Design P-191

P-Engineering makes Instrumentation Design and Specification for Building Utilities, Process Industry etc. for measurement of e.g.:

- Pressure (Abs., Rel. or Dif.)
- Temperature
- Flow & Mass Flow
- Gas Detect (CH, CO, CO2 etc.)
- Weight
- Analyzers (pH, Cl, O₂, Turbidity, Conductivity)
- Level (Radar, Ultrasonic, Capacitance)
- Control Valve Size & Selection

Deliveries:

- Instrument Specification
- Measurement Range Definition
- Communication Protocol Setup
- Hook-up Drawings
- Loop Drawings
- Remote I/O Spec.
- Industrial Network Spec.

Details:

- Instrumentation design for SIL-level (IEC 61508) and Ex-design etc.
- Built-in conditions for e.g., Power or Pharmaceutical with Dead Leg and CIP considerations.
- Operation Safety setup as Normal with 1 out of 1 or increased safety with 2 out of 3 setups.
- Signal 4-20mA HART, Fieldbus, M-Bus etc.

P-Engineering uses e.g.

- [CONVAL®](#) for Control Valve and SRV Selection
- [COMOS](#) for Engineering Purposes (Client License)

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Example of different instrumentation