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Process instrumentation is an integral part of any process industry because it allows real time measurement and control of process variables such as levels, flow, pressure, temperature, pH and humidity. With the right instrumentation, process plants can run effectively, efficiently, economically and safely through the integration of alarm signals.

Control system design varies from trivial to a separate specialty. Instrumentation engineers are responsible for integrating the sensors with the recorders, transmitters, displays or control systems, and producing the Piping and instrumentation diagram for the process. They may design or specify installation, wiring and signal conditioning.

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