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instrumentation refers to all electronic electrical mechanical or any kind of equipment used in a process for control purposes that is meters record the state of the process actuators modify the control resources and controllers command the action of the actuators

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instrumentation and control is the nervous system of industrial complexes power generation and basically all the processes that require some intelligence to accomplish the task of producing a product or process

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instrument control consists of connecting a desktop instrument to a computer and taking measurements history in the late 1960s the first bus used for communication was developed by hewlett packard and was called hp ib hewlett packard interface bus

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instrumentation automation measurement control britannica

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instrumentation involves both measurement and control functions an early instrumental control system was the thermostatic furnace developed by the dutch inventor cornelius drebbel 1572 1634 in which a thermometer controlled the temperature of a furnace by a system of rods and levers

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instrumentation measures process variables controllers calculate changes required to counter changes in signals from instrumentation actuators receive signals from controllers and make changes in the process example the bottoms product of a distillation column flows into a tank before it is loaded into barges for shipment

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instrumentation control is the branch of engineering that deals with process measurement and its control the various industrial processes require a series of measurements controls to achieve the required final product thus instrumentation has vital importance for these processes to control and maintain some variables constant

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