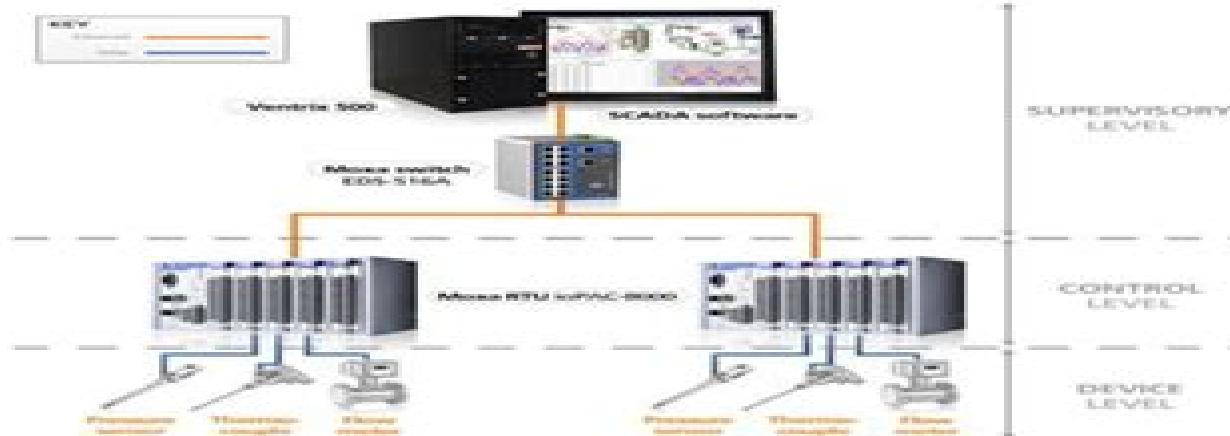2. Common Practice Commands - provide functions common to many, but not all field devices

3. Device Specific Commands - provide functions that are unique to a particular field device and are specified by the device manufacturer

4. Device Family Commands - provide a set of standardized functions for instruments with particular measurement types, allowing full generic access without using device-specific commands.

SCADA(Supervisory Control and Data Acquisition): SCADA (supervisory control and data acquisition) is a category of software application program for process control, the gathering of data in real time from remote locations in order to control equipment and conditions. SCADA is used in power plants as well as in oil and gas refining, telecommunications, transportation, and water and waste control.

SCADA systems include hardware and software components. The hardware gathers and feeds data into a computer that has SCADA software installed. The computer then processes this data and presents it in a timely manner. SCADA also records and logs all events into a file stored on a hard disk or sends them to a printer. SCADA applications warn when conditions become hazardous by sounding alarms.

SCADA diagram:

Application of DCS: Today's controllers have extensive computational capabilities and in additional to proportional, integral and derivative (PID) control, can generally performs logic and sequential control. Modern DCS also support neural networks and fuzzy applications.

DCSs are dedicated systems used to control manufacturing processes that are continuous or batch oriented such as:-

➤ Electrical power grids and electrical generation plants.

➤ Environmental control systems.

➤ Traffic signals.

➤ Radio signals.

➤ Water management systems.

Systems Control Lab Manual 2

Veranus Alva Moore,William Arthur Hagan

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