

Measurement applications



- Measuring a value or set of values
- **Sensor** input device that capture phy sical data
- Analogue data

Give some data to describe the measurement that needs to be taken This will be taken by devices that can automatically take measurements

Computer will Return value by displaying the values to the user



ICT is better than a human

- Provides great precisions in taking me asurements(more precise, safer).
- This is very important for:

Weather stations

Reactor vessel

- Reliability
- Non-interface
- Faster and easier way of analyzing
- Automated systems





Analogue and digital data

Analogue

- Audio or video signals
- Continuous
- All natural signs: human voice, animal sounds and notes by played by instru ments
- Device in its original, ph ysical form. Typically ou tput from a sensor.

Digital

- binary form: digital bits 1 s and 0s
- Data in electronic form, suitable for storage on a computer.









Use of microprocessors and c omputers in pollution monitori

ng

Computers;

- Monitors the quality of the environme nt
- Measures the levels of pollution in the environment
- Reports results over long time periods

To measure levels of gases like carbon m onoxide and nitrogen oxide;

- Install specialized sensors which not o nly measures but also reports back to t he computer via an analogue to digital converter.
- Draw graphs
- Store data with time interval
- Results in spreadsheet
- Results using table, graph



The use of microprocessors and comput ers in hospital intensive care units

- ICT can enhance patient care by;
- Improving access to the clinical data of a patient
- Reducing errors
- Ensuring that compliance with quality standard is observed
- Monitoring a patient's vital signs
- Providing support for decision-making.



ATTENTION

ANY QUESTIONS? NO? GREAT! BYE

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