



- Learning Outcome
- Data Acquisition System
- ➤ Types of DAS
- Single Channel DAS
- Multichannel DAS
- Data Logger



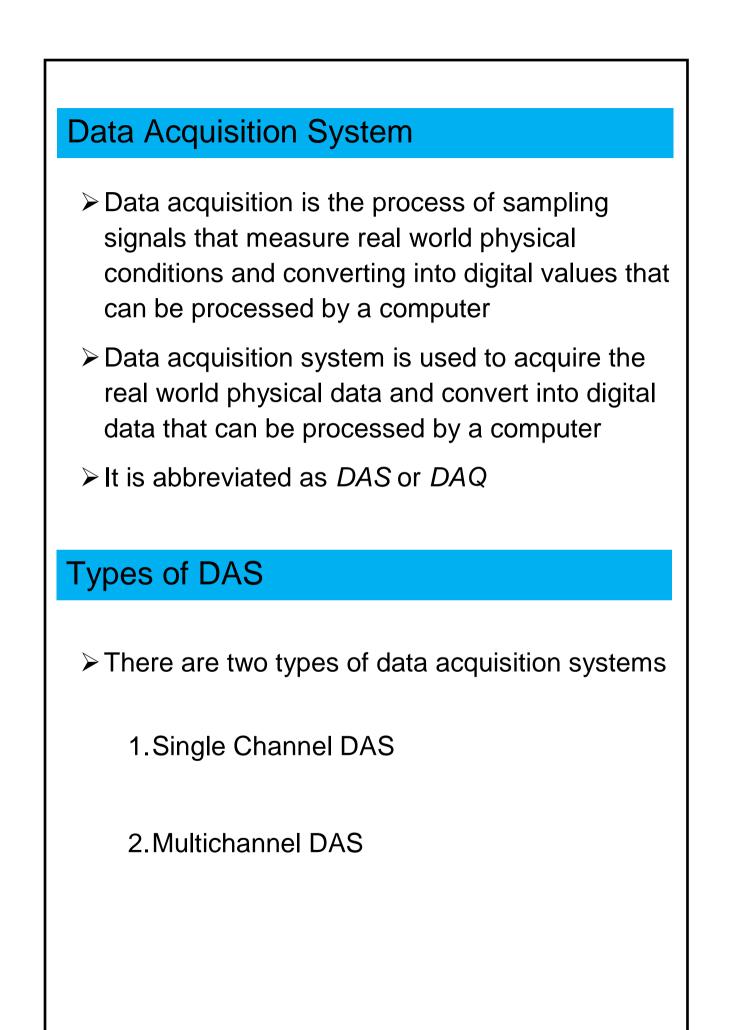
The student must know

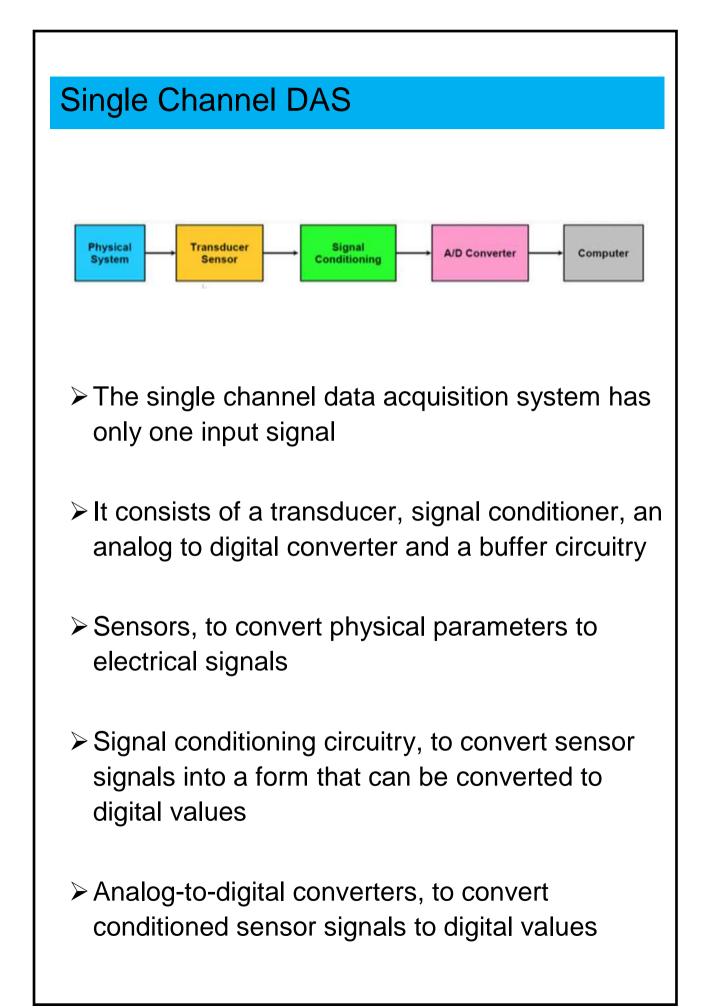
- Sensors and Transducers
- Signal Conditioning Circuits
- Multiplexer, DAC, etc

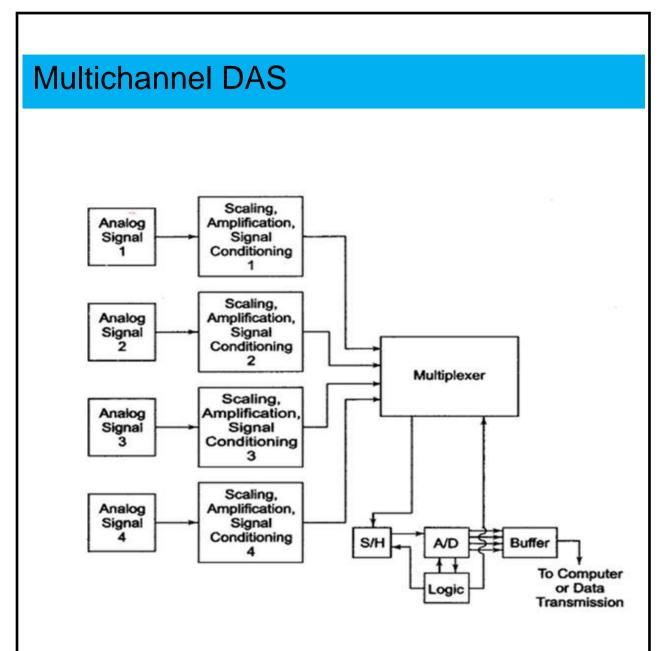
Learning Outcome

In this module you will learn about

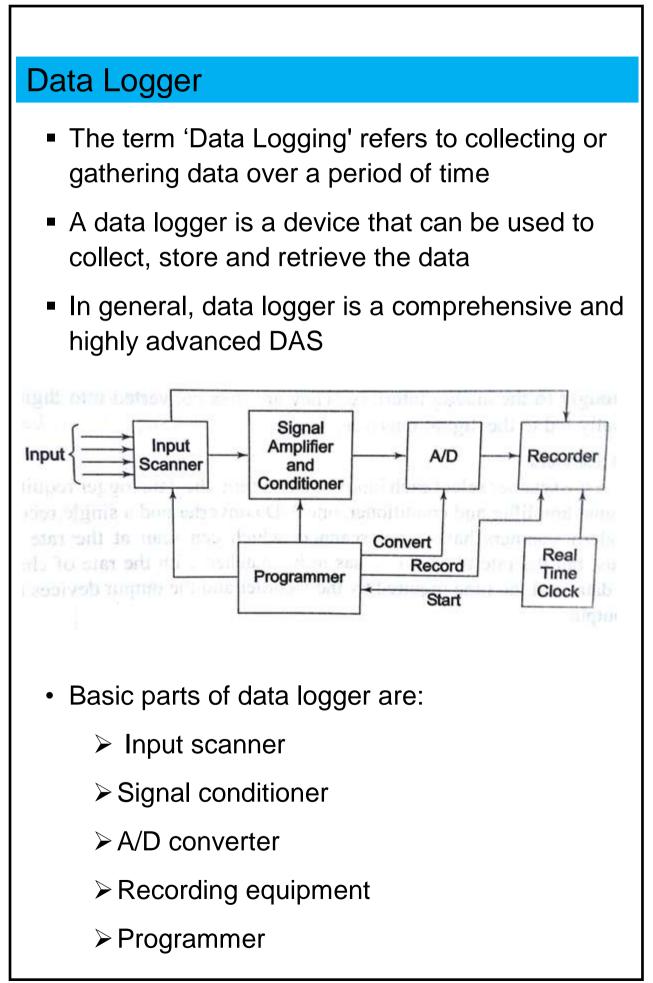
- Meaning of DAS
- Types of DAS
- ➢ Working of Single Channel DA S
- Working of Multichannel DAS
- Data Logger







- There are multiple input signals
- The output of transducers is processed with signal conditioning circuits
- A multiplexer is used to select the processed input signal
- It is then converted in to digital signal with the help of ADC



Advantages of Data Logger

- 1. Data logger can accommodate from 10 to 1000 analog signals, depending on its capacity
- 2.It can be used in remote or dangerous situations
- 3. Data logging can be carried out 24 hours a day, 365 days of the year
- 4. Time intervals for collecting data can be very frequent and regular, for example, hundreds of measurements per second
- 5.No need to have a person present
- 6.Data logging is often more accurate because there is no human error

Links for PPT and Assignment

Link 1

https://www.slideshare.net/sumeetpatel21/data-acquisitionsystem-40835631

Link 2

https://www.slideshare.net/amoldude/data-acquisition-system-33836067

Link 3

https://www.slideshare.net/dilip2993/data-logger-84441106

Source: www.slideshare

Assignment

https://forms.gle/zP3dqxxWKmvY6ydF6

Additional Resources

- 1. Electronic Instrumentation by K.S.Kalsi, TMH Publication
- 2. Electronic Measurements by U.A.Bakshi and V.U. Bakshi Technical Publication
- 3. Instrumentation Measurement and Analysis by Nakara Choudhary(TMH)
- 4. A Course in Electrical and Electronics Measurements and Instrumentation by AK Sawhney, Dhanpat Rai Publication