



Faculty of Engineering
Department of Biomedical Engineering

07

Pressure

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BME 312

Biomedical Instrumentation II

Pressure

- What is Pressure?

Pressure

- Pressure is force per unit area.

Fluid Pressures

- Hydrostatic

Torricelli Barometer for measuring atmospheric pressure

For Torricelli's experiment

Pressure measurements methods

- *Absolute pressure measurement*
- *Gauge pressure measurement*
- *Differential pressures measurement*

Sensing Element: Diaphragm Type

Transducer Types for Sensing Displacement

- Piezoelectric
- Capacitive
- Inductive
- Resistive