

ELECTRICAL MEASUREMENT & MEASURING INSTRUMENTS

Static Characteristics

- **Resolution:** When an instrument is showing a particular output reading, there is a lower limit on the magnitude of the change in the input measured quantity that produces an observable change in the instrument output.
- Like threshold, *resolution is sometimes specified as an absolute value and sometimes as a percentage of deflection.*

Dead Space:

- In some instruments it is possible that till input increases beyond certain value, the output does not change.
- So for a certain range of input values there is no change in output. This range of input is called dead space.

Drift

- An extended period during which the value of the input variable does not change.

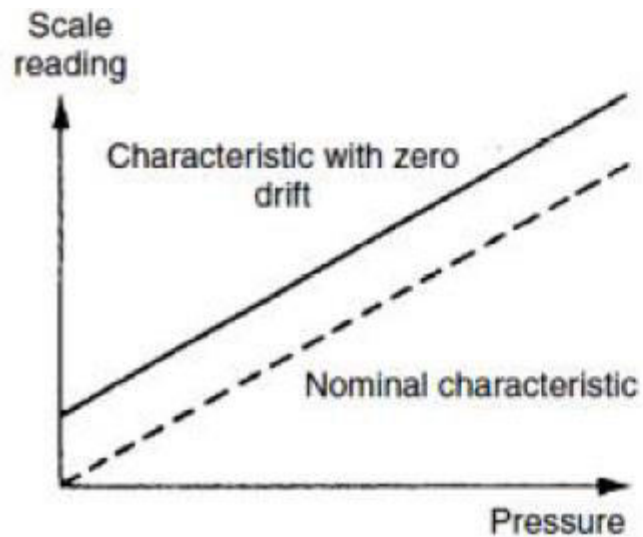


Figure: Zero Drift

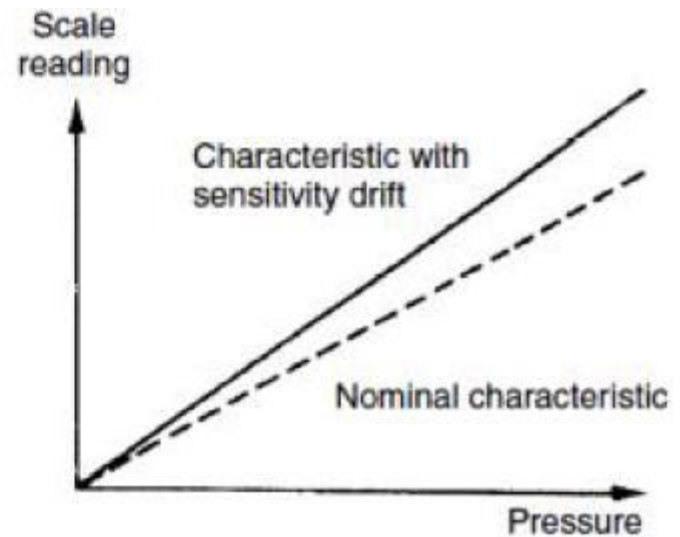


Figure: Sensitivity Drift