

Questions and Solutions at End of Chapter 2

2.1 Describe active and passive, null type and deflection type, analog and digital, indicating and signal-output types. Explain differences between these. Give examples of each (See Section 2.2 in the book for full details).

2.2 **Sample answer:**

(a) Quantity being measured modulates the magnitude of some external power source.

(b) Instrument output is entirely produced by the quantity being measured.

Give examples (see Section 2.2 in the book).

Relative merits:

Active: better measurement resolution (but limited by heating effect due to power source and also by safety considerations—small voltage is necessary).

Passive: simpler construction, no power supply needed, and limited measurement resolution.

2.3 Null type is more accurate but tedious to use.

Deflection type is less accurate but easier to use.

Explain the difference by means of an example, e.g., null and deflection types of pressure gauge (See Section 2.2 in the book for full details).

Null type normally reserved for calibration duties where best accuracy is needed.

2.4 An analog instrument gives an output that varies continuously as the quantity being measured changes. The output can have an infinite number of values within the range that the instrument is designed to measure, but the number of different positions that the eye can discriminate between is strictly limited according to how large the scale is and how finely it is divided.

A digital instrument has an output that varies in discrete steps and so can only have a finite number of values.

Give examples of each.

Digital instrument is best for computer control systems since analog-to-digital (A/D) conversion is needed for an analog instrument. Explain problems with A/D conversion—cost and conversion time (see Section 2.2 in the book).

2.5 **Static characteristics:** These are their steady-state attributes (when the output measurement value has settled to a constant reading after any initial varying output)

Solution Manual For Measurements And Instrumentation Principles

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Kremling, Manfred Ehrhardt**



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