



## Fundamentals of **Industrial Measurement** Technology

# DC Voltage Excitation

In many test tasks, there is no need to deliver significant power ( $< \sim 50$  mA), however, an **accurate and stable reference voltage** is required.

ProDSP Post Series Nr.30.



# Typical applications

- **Simulation** of sensor signals
- **Testing** ADCs within the DUT
- **Verification** of reference points





# Primary considerations

- Output **accuracy** and **stability**
- Power capability is secondary





# Possible instruments

- PC analog output card
- Function generator
- Precision power supply





# System-level questions

- With multiple channels, is a differential output required?
- Or is a shared ground potential acceptable?





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