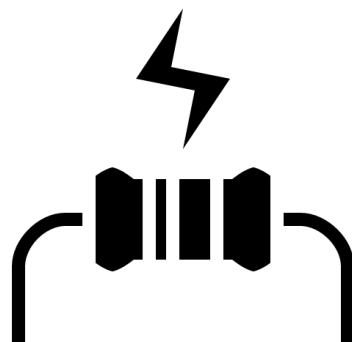




Fundamentals of **Industrial Measurement** Technology

Insulation Measurement – GOhm resistance



ProDSP Post Series Nr.10.



What are insulation testers capable of?

- They typically excite the resistance with a **current-limited voltage generator**.



What are insulation testers capable of?

- The test voltage can range from several **hundred volts to a few kilovolts.**



What are insulation testers capable of?

- The low current flowing through the resistance under test is converted to voltage using either a **high-side or low-side shunt**.



What are insulation testers capable of?

- If the resistance breaks down, the instrument **shuts off the output**, protecting both itself and the DUT (Device Under Test).



What are insulation testers capable of?

- From a safety perspective, a key feature is the ability to **safely discharge dangerous voltages.**



What are insulation testers capable of?

- They can operate with **both DC and AC** excitation.



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