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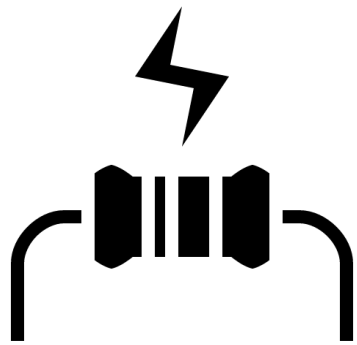
Fundamentals of Industrial Measurement Technology

Ground Bonding Measurement



ProDSP Post Series Nr.11.

The purpose of ground bonding...

- … is to ensure that in the event of a fault, hazardous current can **safely flow to earth**.

Why is this necessary?

- To ensure the safety of operators and end users.

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How do we know our ground bonding solutions work properly?

- They must be measured and tested – but how we do it is crucial!

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The challenge?

- The resistance to be measured is often in the milliohm range.

Key points to keep in mind:

- High test current is required.
- Contact resistance can distort the measurement.
- Two-wire measurement is not sufficient.
- Instrument protection and safety shutdown are essential.
- Measurement error may be comparable to the value being measured.

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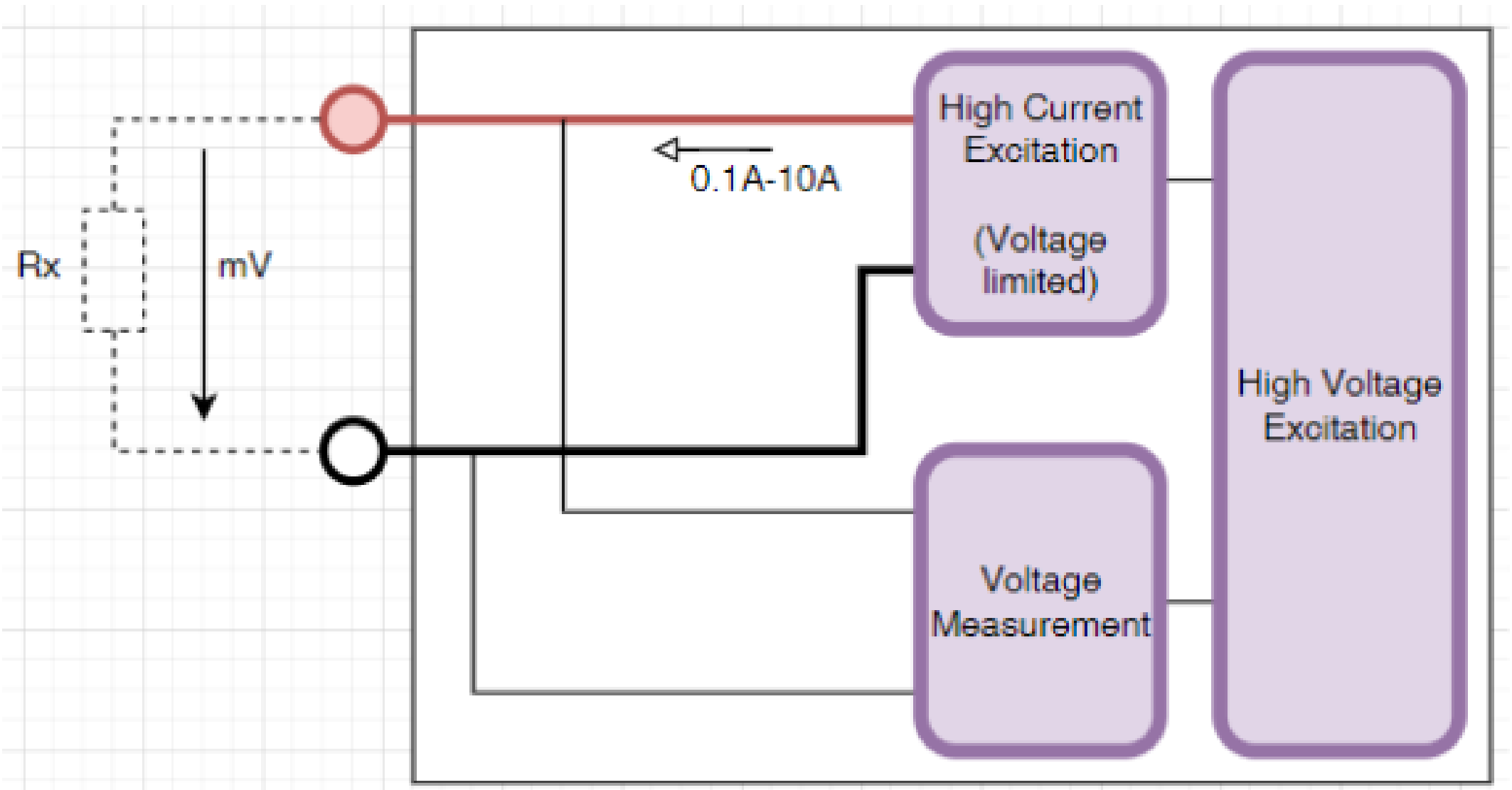

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Measuring is not only a technical matter, but a life-safety concern.

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