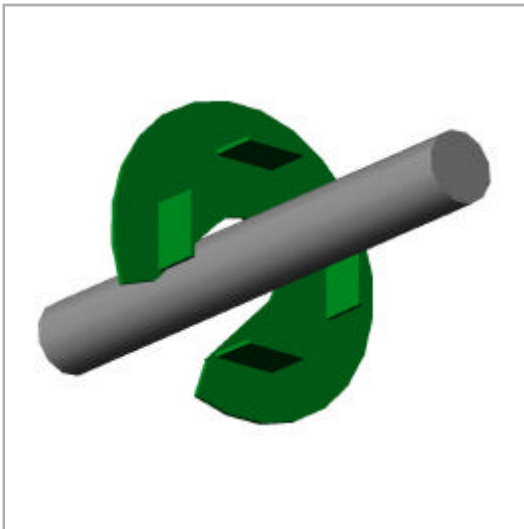




suparule



Contactless Voltage Sensor

- Very accurate, compared to existing measurement technologies
- Non-invasive
- Extremely lightweight
- Inexpensive to manufacture

DESCRIPTION

Suparule Systems Ltd. has developed and patented a new unique technology for the contactless measurement of ac voltage, called the Contactless Voltage Sensor.

The patented technology involves the detection and measurement of the electric fields associated with the voltage on the conductor being measured. This electric field is directly proportional to the magnitude of voltage present.

ADVANTAGES

Accuracy

The device is much more accurate than existing contactless voltage sensing methods.

Low Cost

The device consists of mainly standard PCB material with some common low-cost electronic components.

Measurement Range

Because the sensor does not make galvanic contact with the conductor, a wide measurement range is possible, limited only by the characteristics of the conditioning electronics.

Non-invasive

Because of the design of the sensor, it can be placed in position around the conductor being measured, without breaking the conductor. This facilitates applications where current cannot be shut-off prior to measurement.

Low Power use

As the sensor is not part of the circuit being measured, there is little or no power consumed in from the circuit being measured.

Lightweight

Because of its construction, from standard PCB material, and miniature electronic components, a very lightweight sensor can be manufactured with this technology.

Interference Rejection

The design includes a unique method of rejecting the effects of external electric fields. Therefore, the device can be used in close proximity to other energised conductors without effecting the accuracy.

APPLICATIONS

- Voltage Measurement
- Power Measurement
- Power Factor Measurement
- Fault Indicators on overhead lines
- Power Quality Analysis Instrumentation

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