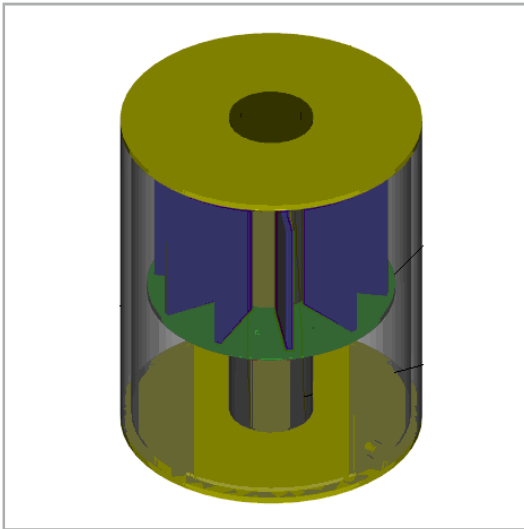




suparule



Shielded Leakage Current Sensor

- Low-current measurement in harsh environment
- Filtering of transient effects
- Highly accurate

DESCRIPTION

Suparule Systems Ltd. has developed and patented a new unique technology for the measurement of very low current in harsh environments, e.g. conductors subject to lightning strikes.

The patented technology involves the detection and measurement of the magnetic fields associated with the current in the conductor being measured, the maximising of the pickup signal, the distribution of induced high voltages and the filtering of the effects of lightning transient current pulses.

Interference Rejection

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

ADVANTAGES

Accuracy

Extremely accurate measurement of low currents is possible.

Low Cost

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

Measurement Range

Leakage currents of less than 0.1mA can be measured in conductors which may also carry transient currents of hundreds of thousands of amps, similar to those associated with lightning strikes.

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.

APPLICATIONS

- Leakage Current Measurement
- Current Measurement in harsh environments
- Transient Pulse Monitoring

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