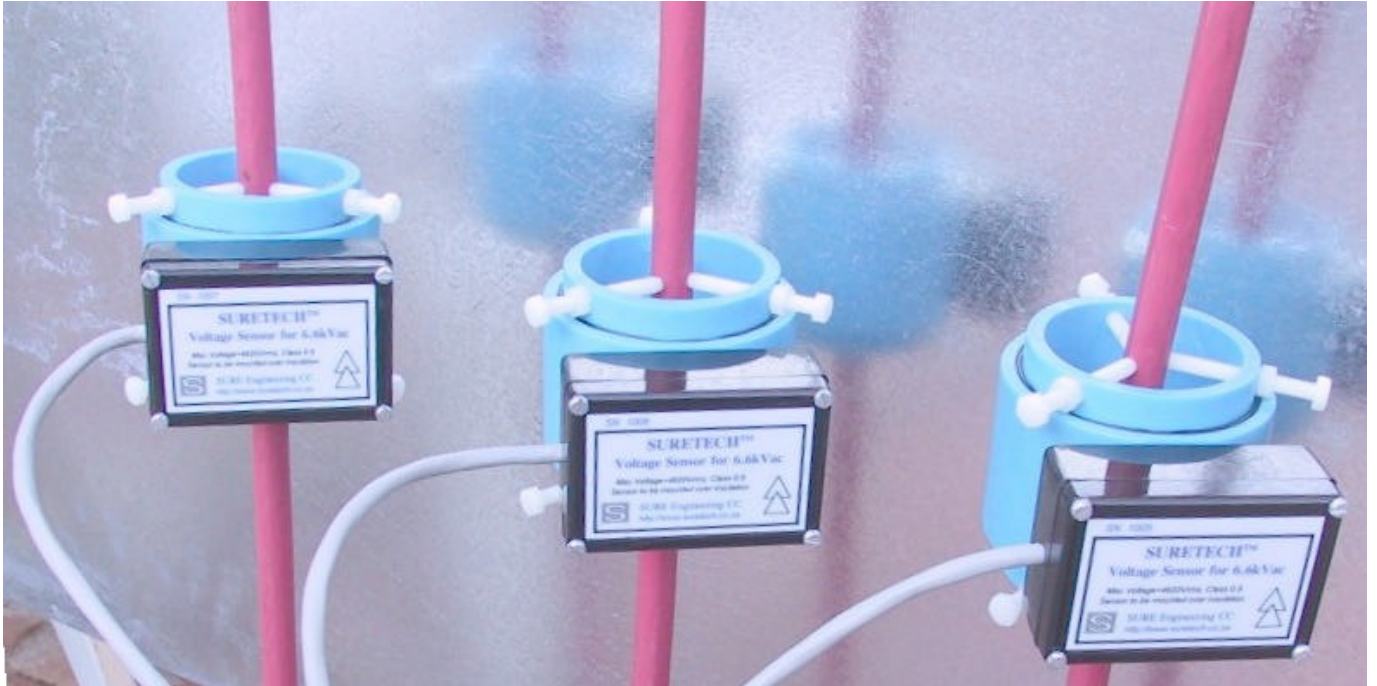


*New **Sensor** for measuring ALL electrical parameters*

SURETECH

Voltage AND Current Slip-On Sensor



The SURETECH Voltage AND Current Slip-On Sensor (VISOS) is available for single OR three phase current and / or voltage measurements. The SURETECH VISOS senses ALL electrical parameters in one sensor. Sensor output is fed to a SURETECH SLT, which samples Voltage, Current and phase angle to provide all electrical parameters including: kW, kVA, kVARs, Power Factor, Phase angle, Frequency, and kWh if required. All of this in THE safest and most cost effective package.

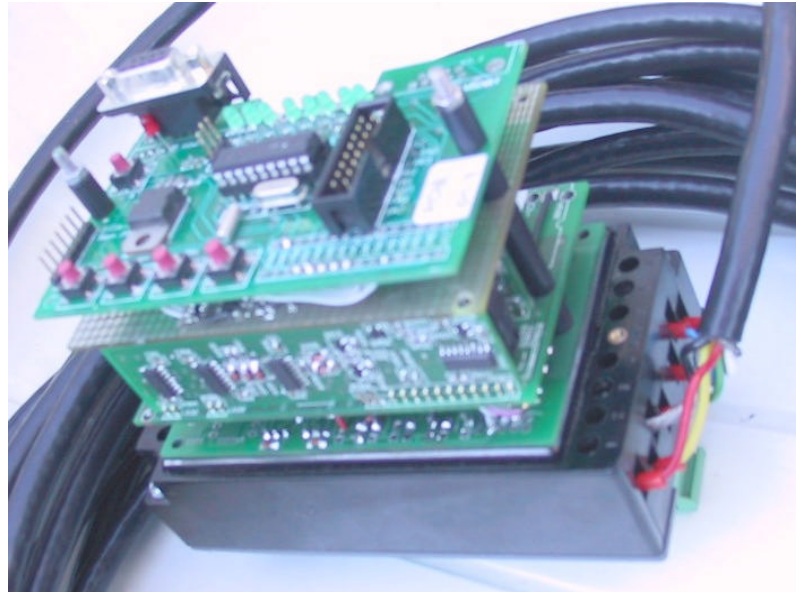
General Features:

- ✓ Can be used on cables with voltage less than 100Vac to tens of thousands of volts – “one size fits all!”
- ✓ Cable ends are used with the cable’s insulation in place to mount the slip-on sensor
- ✓ Capacitively coupled to HV source through air and cable insulation
- ✓ Ultra linear measurement circuits for excellent accuracy
- ✓ For use on 50Hz and 60Hz systems without re-calibration
- ✓ Filters control external emissions
- ✓ Immune to lightning discharges e.g. 95kV on 11kV cables
- ✓ Cylindrical sensor has resin potted components for long life, and stability
- ✓ Dimensions: 80mm diameter x 70mm long sensors; 110mm x 70mm x 100mm control enclosure
- ✓ Integral cable connections between sensors and control enclosure
- ✓ Nylon screw fixing of sensors
- ✓ SLP DIN rail clip on
- ✓ Transient suppression on input and outputs
- ✓ Wide selection of input and output options including relay, opto-isolated, analogue and RS232
- ✓ Wide selection of auxiliary power supply options
- ✓ Galvanic isolation from HV source
- ✓ Engineering backup to provide you support for design, applications information, installation & calibration, maintenance
- ✓ Patent pending

Typical Applications:

- ✓ Cable theft alarms
- ✓ Safety interlocks in HV substations
- ✓ LV, MV substation voltage alarms (upper & lower)
- ✓ LV, MV line re-closer voltage control
- ✓ LV, MV kW, kVA, kVAR monitoring & metering
- ✓ LV, MV equipment protection
- ✓ LV, MV substation measurements for SCADA, telemetry and control
- ✓ LV, MV cable monitoring of voltage for back-feeds or induction
- ✓ Fault location
- ✓ Phase rotation, phase sequence
- ✓ Power factor monitoring and control

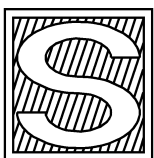
Voltage AND Current Sensor Interface:



- Output from the sensors are fed by screened multi-core cable, to a junction box, and to the SURETECH Smart Load Processor, where the user's required functionality is determined.
- Sensors are factory calibrated on current and voltage as indicated on the sensor's label.
- After installation voltage can easily be re-calibrated to remove in-situ variances, via RS232 port at the SLP. (The user does not need to re-enter the HV chamber)

Voltage AND Current Configuration options:

Feature	Range	Description
Current Inputs (Type: Rogowski Air cored sensor)	<ul style="list-style-type: none"> • 0-50, 100, 200, 500, 1000, 2000, 5000, 10000 Amp AC • Any others, please enquire 	<ul style="list-style-type: none"> • PVC / poly-carbonate enclosed sensor • Measures - 50 or 60 or 400Hz • Sensor accuracy after calibration: 0.5% • Bandwidth: 20Hz to 5kHz • Mounted on cable insulation LV or MV • Withstand very high impulse levels • Power consumption <1VA • Temperature range: -10 to +70degrC
Voltage Inputs (Type: Dielectric sensor)	<ul style="list-style-type: none"> • 0 - 150, 300, 600, 1200 LV sensors • 0 - 4kV 8kV, 16kV, 40kV MV sensors • Any others, please enquire 	
Aux PSU (normally on SLP)	<ul style="list-style-type: none"> • 10-30Vdc • 30-90Vdc • 90V-260V ac/dc 	



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