

Attn: All operators of electrical equipment


SURETECH Instruments eNews letter - (Feb 2011)

HV SAFETY, Products and Services

Phasing Sticks for 3.3kV, 6.6kV, 11kV, 22kV, 33kV and HV

	<p><i>Phasing Sticks for are now SAFER with Infra Red remote controller... HANDS FREE measurement!!</i></p> <ul style="list-style-type: none"> • Active instrument is at or near ground level, and measures BOTH phases at the same time • FOUR measurements are made simultaneously: Phase voltage LEFT; Phase voltage RIGHT; voltage between LINES; Phase difference between LINES • Interconnecting cables are fully insulated to rated voltage • Handles OR telescopic link sticks can be used (with industry standard CROWN adapter), enabling measurements from ground (eliminates need for cherry picker) • Accurate phase voltage to earth are measured on BOTH phases simultaneously • Accurate line voltage AND true phase angle between phases are measured • Infra Red remote controller enables full control of measurements without the user holding the instrument (MUCH SAFER OPERATION) • OPTION1: Woven bag or Aluminium case • OPTION2: 5m or 10m fully insulated interconnecting earth cables (standard 2.5m cables) • OPTION3: extension earth cables can be ordered 5m or 10m <p><i>Phasing Sticks for HIGH VOLTAGE</i></p> <ul style="list-style-type: none"> • 66kV and 132kV, dual active phasing sticks are available without handles, fitted with crown adapters for telescopic link stick deployment; probe guards are provided
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SAFETY TEST Kit now available

	<p><i>Complete family of SURETECH SAFETY test instruments is now available in one kit bag</i></p> <ul style="list-style-type: none"> • HV/PT2 • HV/PA (3 different sensitivities) • Reference Generator • Contact adapter kit, including contact adapter, 22kV probe, selection of probe tips • 50kV handle • Woven nylon heavy duty padded bag for protection, transport and easy access of all instruments
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High Voltage Personal Alert can SAVE your LIFE



HV Personal Alert can save your life

- HV/PA is suitable and should be recommended for ALL people working near power lines at all MV / HV voltage
- HV/PA is worn on the wrist; HV/PAs can also be fixed to Aluminium ladders, and used as a "Guardian Angel"
- In the recent power failures in the Cape, we used an HV/PA as a detector strapped to a pre-payment meter, to alarm us that power was restored, to enable us to switch back from our standby generator supply
- The HV/PA has NO ON/OFF switch, it AUTOMATICALLY detects the presence of an electric field, and turns itself ON and beeps and flashes at a rate linearly proportional to the electric field strength
- Every person now has the means to dramatically improve your own SAFETY
- High Voltage Personal Alert datasheet: [High Voltage Personal Alert](#) [623kBytes]
- High Voltage Personal Alert datasheet: [HV/PA operational characteristics](#) [35kBytes]

SURETECH Electrical SAFETY testers



HV Personal Tester enters its thirteenth year since Eskom acceptance

- HV/PT2 reliability has been proven over the past decade
 - HV/PT2 is THE most stable tester of its kind in the electrically noisy environment of substations, cables and powerlines
 - Power utilities on five continents use HV/PT2
 - HV/PT2 datasheet: [High Voltage Personal Tester](#) [383kBytes]
 - Electrical Safety Training: [Electrical SAFETY Training](#) [22kBytes]
- HV/PT2 remains the favorite HV Personal Tester*

POWER SYSTEM MONITORING

Do you need to measure on HV power lines, voltage or current



HV Voltage measurements are now easy, safe and accurate

- Voltage measurements can be done on 132kV power lines using telescopic link sticks, or handles
- Peak hold instrument enables user to read the instrument reading for ground readouts

HV Current measurements are now easy, safe and accurate

- Hall Effect U-sensor is available with crown adapter for telescopic link sticks
- Measure power line currents quickly, accurately from the ground
- Peak hold instrument enables user to read the instrument reading for ground readouts

Are you battling with power line dips and transients



Current and Voltage logging instruments

- We have available current and voltage loggers to capture TRANSIENTS as well as normal periodic logged values
- Would you like to know what caused that power dip? SURETECH Vix can capture them
- Would you like to know what caused that last power outage? SURETECH Vix can capture that
- Would you like to know what your voltage or current is throughout the day? SURETECH Vix can capture this
- SURETECH Vix captures voltage or current samples to on-board DataFlash memory, both normal AND transients
- User sets upper and lower thresholds; if the current or voltage exceeds thresholds, then voltage or current is logged FIVE times per second on all channels until the transient has cleared; analysis will enable system fault diagnosis
- High Voltage Personal Alert datasheet: [Voltage / Current transient and periodic logger](#) [828kBytes]

Smart Load Processor

Cable THEFT problem? Earth Loss Monitor



Earth Loss Monitors for cable theft detection

- Earth Loss Monitor exported to Malaysia, is reported to be operating very well
- ELM has been targeted by Malaysian Telcos and power utilities to enable them to pin-point cable theft
- Does anyone in SA have a cable theft problem?
- ELM measures resistance of cable armouring, compares this with a pre-set threshold, and raises an alarm when exceeded
- Data sheet: [Earth Loss Monitor](#) [257kBytes]

AC & DC Current Measurements

AC current measurements: Split-Flex Rogowski Current Sensors



Rogowski Current sensors in split core flexible format, output 4-20mA and +/-5V instantaneous

- General purpose flexible Rogowski Current Sensor (SURETECH RCS), clips around any shape conductor
- RCS have loop diameters of 70mm, 150mm and 300mm, all have 2m tail to instrument (other sizes are also available)
- Currents from a few Amps to many tens of thousands of Amps
- RCS sensors are suitable for temporary or permanent current measurements
- We supply simple RCS current transducers right up to multi-channel current logging equipment
- Data sheet: [Rogowski Split Flex](#) [575kBytes]



Multi Channel Current processing units available for temporary or fixed applications

- Multi Channel Current processing units are available for LV kiosks, furnace bus tubes etc
- SLP Current processors available for 4-20mA logging, OR multi-channel harmonic sampling into a PC
- Multi Channel processors have 4 / 8 / 12 / 16 channels standard
- Now you can log 16 house loads from an LV kiosk, with one logger in the kiosk
- Or you could simultaneously monitor all currents in a set of bus-tubes in a submerged arc furnace, over time
- Upper and lower thresholds are also settable for alarms, RS232 interface, with built-in logger (1Mbyte)
- Data sheet: [Multi-channel current processor](#) [318kBytes]

Non contact voltage measurements for ULTRA SAFE measurements

Vehicle sensor for cranes, tip-trucks: Out Door Live Line Sensor



Vehicle sensor Out Door Live Line Sensors measures voltage on power lines

- ODLLS senses strength of electric field
- ODLLS measures voltage on power lines without making physical contact
- Voltage and QOS parameters on a power line can be measured
- Alarms are connected to NO/NC relay contact output
- Useful features are: automatic self-test, RS232 logging, calibration on site
- [Vehicle proximity power line sensor - ODLLS](#) [663kBytes]

MV cabinet interlocks: Cable Live Flasher



Cable Live Flasher measures MV cable voltage accurately, & ULTRA SAFELY

- The CLF measures voltage on cable ends SAFELY, on cables and equipment; including switchgear cable ends, mini-substations, ring main units etc...
- The CLF answers queries that SHOULD be going through the operator's mind before and after operating an MV breaker... "eg. are ALL three phases dead? Is there a backfeed?"
- Ultra SAFE, low cost, accurate measurements for a SAFETY CRITICAL APPLICATION
- GET YOUR OWN WINDOWS SOFTWARE DEMONSTRATION OF OUR FLASHER TECHNOLOGY FREE! ASK US
- [Data sheet: Cable Live Flasher](#) [663kBytes]

Partial Discharge: measure voltage and current pulses directly



Pulse Peak Sensors for voltage and current

- The PPSS measures fast transient electric field pulses from nearby conductors
- Rogowski current sensors also measure fast current pulses
- 50Hz / 60Hz is suppressed, and 5kHz to 500kHz signature is measured
- If this partial discharge signature is exceeded by a settable amount, then alarms are raised
- Amplitude of transients as short as 5micro-seconds are measured
- Analog output of wave-shapes can be observed on oscilloscope
- Data sheet: [Pulse Peak & Sine sensor](#) [227kBytes]

Download the latest SURETECH Instruments catalog

SURETECH Instruments 2011 Catalog

- [SURETECH Instruments 2011 Catalog](#) [3MBytes]

Employment

Can you make technical sales and solutions happen, and would you like to earn good commissions?

- If you would like to sell SURETECH products and solutions in your area, please contact us
- We are always on the look-out for good agents in various areas
- We prefer to operate through local sales people
- What we will need from you is regular communication of what you are making happen in your area
- If you are interested, give Neil a call on: (027) 083-555-0149

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We have the latest SURETECH Product Catalog 2011 booklet that we can email, or post to you, or you can download it off our website in zipped format:

(3Mbyte PDF file)

We would appreciate it if you could check with us that we have your details correct on our database:

Organisation, Position, Title, First-name, Surname, Email, PO Box / Street No, Suburb, City, Postal Code, Tel, Fax,
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