

New indoor and outdoor High Voltage instrumentation transducers extend our HV Transducer range of high accuracy instruments

SURETECH™

HV Transducer Current Probe

For insulation resistance and capacitance measurements icw IEC-932



This range of current probes is used for measuring $\tan(\delta)$ on HV apparatus, insulation resistance and capacitance under HV operational and test conditions. Leakage current is measured and its phase is compared with the HV reference excitation voltage's phase. The resistive component of current is separated from the capacitive component by $\cos(\phi)$ and $\sin(\phi)$ processing. These two parameters are then available on an RS232 link, for further processing by a PC computer using Excel or other spreadsheet. The probes can also output a 0-2Vdc signal that represents either capacitive or resistive current.

SURE Engineering CC designs and manufactures a range of transducers and sensors suitable for your everyday tasks of measuring electrical parameters. This range of current probes cover the following parameters.

Input Sensing Current	Input Protection Limits	Type
0 - 5 mA	< 220Vac (3mA while limiting)	5 mA / V prot
0 - 500 uA	< 220Vac (3mA while limiting)	500 uA / V prot
0 - 5 mA	< 0.5 A	5 mA / I prot
0 - 500 uA	< 0.5 A	500 uA / I prot

Output type	Range	Type
Analog voltage	0 - 2V Insulation Resistance OR 0 - 2V Apparatus Capacitance	Res2 Cap2
RS232	Resistive current AND Capacitive current	RS232

Reference Phase	Range	Type
8V rms	+/-50%	Ref8V
110 Vac (50 / 60 Hz)	+/-30%	Ref110V
220 Vac (50 / 60 Hz)	+/-30%	Ref220V

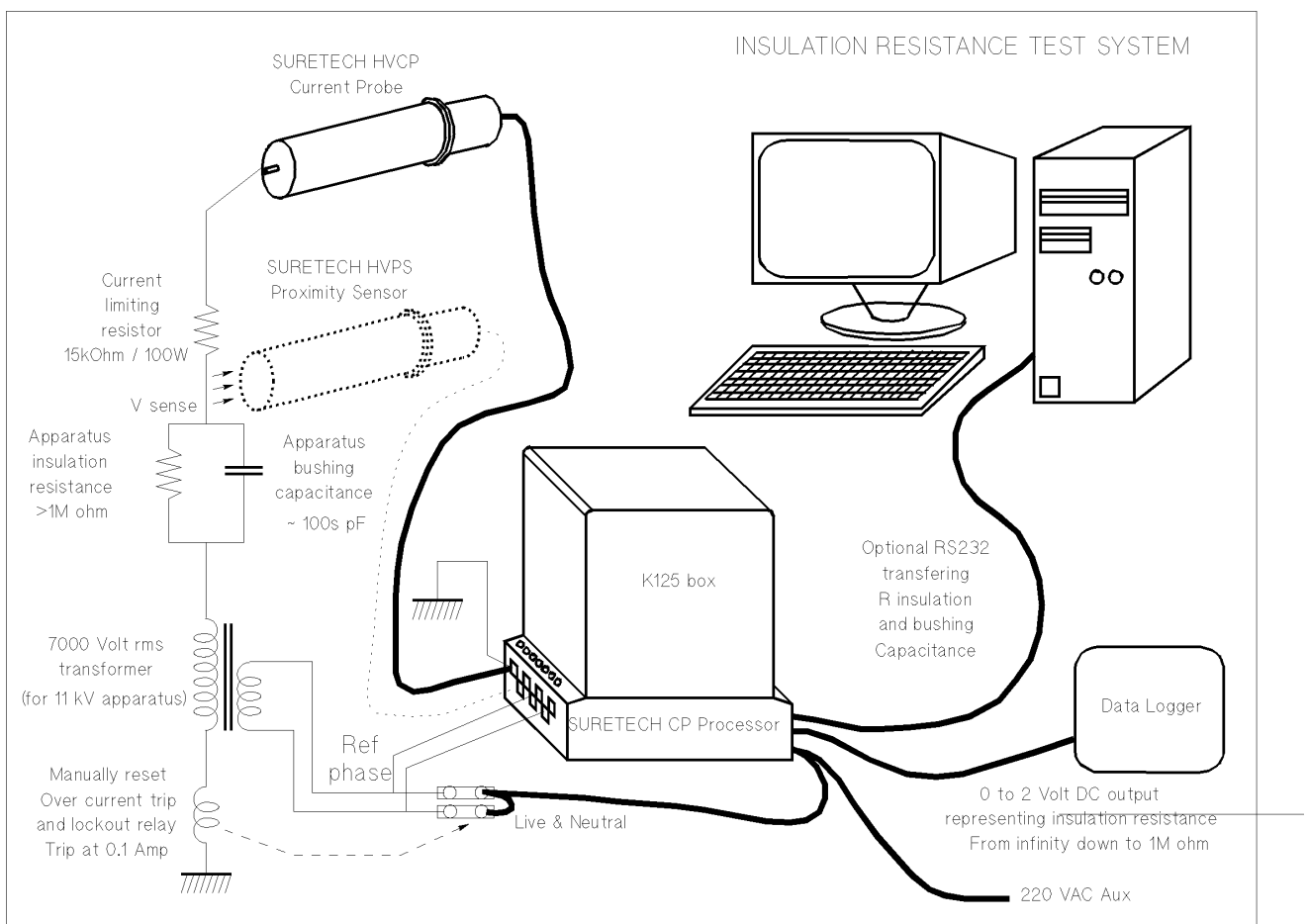
Auxiliary PSU	Range	Type
110 Vac (50 / 60 Hz)	+/-10%	Aux110V
220 Vac (50 / 60 Hz)	+/-10%	Aux220V

Typical Applications:

- ✓ Leakage resistance and leakage capacitance measurements on MV and HV apparatus covering system voltages exceeding hundreds of kV
- ✓ Switch gear, control gear, and bushing insulation resistance and capacitance testing
- ✓ HV transformer insulation resistance testing
- ✓ HV bus-bar insulation resistance and capacitance measurements and testing
- ✓ Cable insulation resistance and capacitance measurements and testing
- ✓ Environmental testing of HV equipment including the effects of salt spray, humidity and temperature

General Features:

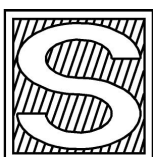
- ✓ Conforms to IEC-932 standard for measuring insulation resistance
- ✓ Ultra linear measurement circuits
- ✓ Input over-current circuit protection up to 0.5 amps (or 220Vac option)
- ✓ Cylindrical enclosure has epoxy potted components for long life
- ✓ Dimensions: 34mm diameter x 150mm
- ✓ Integral cable connection
- ✓ Wide selection of input and output options including, logic, analogue and RS232
- ✓ Wide selection of auxiliary power supply options
- ✓ Engineering backup to provide you support for design, applications information, installation & calibration, maintenance
- ✓ For use on 50Hz and 60Hz systems



HV Transducer Current Probe Ordering information:

- For further information, please contact us
- SURETECH™ equipment is warranted for one year against component failure

15-Apr-04



SURE Engineering CC

PO Box 63, Steenberg, Cape Town 7947
South Africa
Reg CK 87/11172/23

Website: <http://www.suretech.co.za>

email: info@suretech.co.za

Tel:+27-21-701-8529 Fax:+27-21-701-9183

Cell: +27-83-555-0149