All Items are offered on first come first serve cash and collect basis. No items may be reserved. Limited stock is available. The availability of stock, at the time of order, cannot be guaranteed.

When placing an order please state the product’s reference number as indicated below.

Please take note of the indicated Warrantee

For more information please contact us on 011 782 1010 or marketing@hvtest.co.za

### MV and HV Cable Testing Instruments

<table>
<thead>
<tr>
<th>Order Code</th>
<th>Product</th>
<th>Special Offer</th>
<th>Guarantee</th>
</tr>
</thead>
<tbody>
<tr>
<td>PFRIDA</td>
<td>Baur Frida without accessories + Stick</td>
<td>R175,791.72</td>
<td>Voetstoots</td>
</tr>
</tbody>
</table>

**High voltage testing and diagnostics device**

- Testing of electrical equipment and medium-voltage cables up to 20 kV nominal voltage
- Max. test voltage 24 kVrms / 34 kV peak
- Voltage shapes: VLF truesinus®, VLF rectangular wave voltage and DC voltage
- VLF truesinus® test technology enables load-independent, reproducible sinusoidal high voltage
- Cable testing according to: DIN VDE 0276-620/621 (CENELEC HD 620/621), IEEE 400.2, IEEE 400-2012
- Cable sheath testing according to IEC 60502/IEC 60229
HVA45TD – 45kV VLF HV Test System with Tan Delta

The HVA45TD with integrated Tan Delta allows testing and diagnostics of medium voltage cables. It performs VLF and DC testing, sheath testing, sheath fault location mode and leakage current correction. Assessments of cable condition can also be carried out by use of Tan Delta Diagnostics

Application

- VLF and DC Output
- Tan Delta Diagnostics (TD)
- Leakage Guard ®
- Managed Withstand Test (MWT)
- Sheath Test
- Sheath Fault Location Mode
- Vacuum Bottle Test
- Upgradeable with partial Discharge System
- Insulation Testing

Features

- MWT: the recently introduced Managed Withstand Test (MWT), a combination of Withstand Testing and Tan Delta Diagnostics in compliance with IEEE 400.2-2013, can be performed
- Output voltage 45 kV peak, 32 kV rms
- Pure sinusoidal output voltage (load-independent)
- Internal TD measurement with high accuracy (1 x 10)
- Tan Delta measurement with integrated Tan Delta various frequencies (0.01 – 0.1 Hz)
- Leakage Guard® - leakage current correction
- Output current 60 mA max.
- Highest test capacity of 10 µF
- Ultra-light and compact weight (36 kg)
- Protection class IP67 (with closed lid)
- Total protection – almost unbreakable, watertight, dustproof and corrosion proof case
- Large Colour display (4,3”)
- USB and Bluetooth connections
- Cable testing according: IEC60502-2:2015, IEEE 400.2-2004, CENELEC HD 620/621, IEEE400.2-2013 etc.
- Programmable test sequences
- Upgradable with partial discharge diagnostic system (optional)
<table>
<thead>
<tr>
<th>Order Code</th>
<th>Product</th>
<th>Special Offer</th>
<th>Guarantee</th>
</tr>
</thead>
<tbody>
<tr>
<td>STD30</td>
<td>TD30 with Black case</td>
<td>R 120,000.00</td>
<td>Voetstoots</td>
</tr>
</tbody>
</table>

The TD30 provides the testing and commissioning engineer with a versatile high voltage Tan Delta measuring system suitable for testing electrical plant including cables: XLPE, PE, EPR, PILC etc, capacitors, switchgear, transformers, rotating machines, insulators and bushings. Tan Delta testing enables the cable test engineer to detect insulation defects before the cable fails in service.

**Features**
- Lightweight portable unit 10Kg’s Only
- Tan Delta / Capacitance
- Solid state air insulated design
- Suitable for use with the HVA28/30/34 VLF test systems
- Test result storage to notebook or PDA via Bluetooth
- Supplied complete with analysis software
- Real-time display of actual output waveform
- Tan Delta made Easy

<table>
<thead>
<tr>
<th>Order Code</th>
<th>Product</th>
<th>Special Offer</th>
<th>Guarantee</th>
</tr>
</thead>
<tbody>
<tr>
<td>PT903B</td>
<td>KEH T903B  Power cable fault locator</td>
<td>R62,823.69</td>
<td>Voetstoots</td>
</tr>
</tbody>
</table>

This Pulse reflection Test Set with integrated 25MHz real-Time memory transient recorder, for highest measuring accuracy. Its features are particularly simple operation and versatile application. Well established measuring methods are combined with modern electronics. One major feature is the fully automatic fault location in the Surge Current Mode. To be used in conjunction with a Surge Generator. The simple Menu structure leads the user easily through all selectable measuring modes.

**Measuring Methods:**
- pulse reflection method
- Single core (comparison measurement) with internal or external balance.
- Differential measurement
- Impulse current method.
- Output voltage of measuring pulse 24V
- Pulse width of transmitting pulse 100nS-8000nS
- Voltage withstand of pulse echo (50/60Hz) 400V AC
- Impedance Balance internal or external
- Measuring ranges pulse echo 1000/2000/4000/
- Transient Recorder 8000/16000m
**Features**

**Output Voltage:** 0-8kV; 0-16KV  
**Burner:** Included : 150mA  
**Tump Rate:** Approx. every 10-15 Seconds  
**Energy:** 1280 Joules @ 8kV and 16kV  
**Controls:** All controls are motorized and operated by toggle switches.  
**Battery:** 12V Internal Battery  
**TDR Specifications:** v.4 Color  
**Auto Analyze:** Automatically marks end of cable and fault location and gives distance.  
**Screen:** 10.5" diagonal (243mm x 185.1mm color  
**TFT LCD – Backlight** Visible in Sun Light

---

**Order Code** | **Product** | **Special Offer** | **Guarantee**
---|---|---|---
HCSST | SST15-832 Fault Locator | R 285 000.00 | 3 Months labour warrantee

The SST15-832 is the most compact VON Cable Fault Locator offering full featured cable fault location and sectionalizing for primary cable faults, full function radar standard, simple two step operation and high energy for reliable operation.

**Features SST15-832**

**Voltage:** 0-15kV  
**Energy:** 832 Joules  
**Leads:** 15' HV Lead with MC connection, 15' Ground Lead  
**Dimensions:** 22" x 18" x 12", Built in Hand Cart Standard.

**TDR Specifications**

**Auto Analyse** Automatically marks end of cable, transformer locations, fault location, gives distances.  
**Screen** 8.9cm x11.4cm) LCD with 320x240 dot matrix –  
**Backlight**  
**Accuracy** 0.5% of the range selected

---

XF series portable combination TDR, thumper hipot sectionalizer for 16kv. Features the fastest automatic TDR technology available in monochrome. Just switch on, push the green start button when prompted, and in less than 60 seconds unit displays distance to fault.

**Order Code** | **Product** | **Special Offer** | **Guarantee**
---|---|---|---
HCXF16 | XF16-1280v.4 with Test and Burn | R 395,000.00 | 3 Months labour warrantee
Distance: Induce over 8 times more current than the competition onto a target line. More current means that you can walk and trace further than ever before.

Versatility: Induces at 8 kHz and 33 kHz for low distortion locates. In direct connect mode, the SeekTech ST-33Q can transmit at any frequency between 10 Hz and 490,000 Hz making RIDGID SeekTech ST-33Q one transmitter that can be used with all receivers.

Speed: More signal equals less retracing of your steps to pick up and move the transmitter. Cut your inductive trace steps in half, by only having to set up the ST-33Q once. In direct connect mode, the LCD display gives instant feedback on current flow and line resistance.

---

### Order Code | Product | Special Offer | Guarantee
--- | --- | --- | ---
HCST33 | ST33Q - Line Transmitter | R 35,000.00 | 3 Months labour warranty

**Measuring Bridge**

- With measuring range 0----999‰ 10 turn potentiometer.
- Switchable Resistance 10/100/1000 ohm ± 0.1%
- Range for short and for faults
- Internal Voltage 0 - 6V
- External Injection max 6kV
- Measuring Current Max. 50A
- Sensitivity of bridge 1 x 1-8 A 1 x 10-9 1 x 10-10 A
- Accuracy 1%
- Weight 5kgs
- Complete set of leads & clamps are supplied with unit
Application
Typical application is measuring resistance of non-inductive test objects:
- High, middle and low voltage circuit breakers (live and dead tank)
- High, middle and low voltage disconnecting switches
- Gas Isolated Switchgears (GIS), High-current bus bar joints, Cable splices, Welding joints Fuses

Features
- Test current: 200A
- Measuring range 0 – 999.9 mΩ (up to 6 Ω)
- Resolution 0.1 µΩ
- Typical accuracy ± (0.1 % rdg + 0.1 % FS)
- SINGLE / CONTIN / BSG / DTR test modes
- Very high output power
- The output current is filtered and has a ripple of less than 1 %.

Included:
- RMO200G Micro Ohmmeter
- Cable Bag RMO200G
- Current cables 2x5m
- Sense cables 2x5m
- Thermal printer 80mm
- Thermal paper roll 80mm
- Transport Case
- Mains power cable EU16A

Order Code | Product | Special Offer | Guarantee
--- | --- | --- | ---
PRMO200 | RMO200G Micro Ohmmeter | R82,456.14 | 3 Months labour warrantee

The CT-8000 S3 is an EHV circuit breaker analyzer with 3 contact timing channels. The CT-8000 S3 can fully analyze a circuit breaker's performance by measuring the main contact and resistor contact time, stroke, velocity, over-travel, bounce back and contact wipes. Also, an outstanding feature of the CT-8000 S3 is the ability to perform dynamic resistance tests on circuit breaker contacts.

Features:
- Analyze circuit breaker's performance by measuring main contact and resistor contact time, stroke, velocity, over-travel, bounce back and contact wipes
- Perform dynamic contact resistance test
- Timing windows: 1 second, 10 seconds, or 20 seconds
- Timing resolutions: ±50 micro-seconds @ 1 sec. duration, ±500 micro-seconds @ 10 sec. duration, ±1.0 milli-seconds @ 20 sec. duration
- Timing accuracy: 0.05% of reading ±0.05 ms @ 1 second duration
- 3 digital travel transducer channels; linear range: 0.0 - 60.0 in (±0.01 in) rotary range: 0 - 360 degrees (±0.36 degrees)
- Dry-contact channel protection: All contact inputs are grounded until test. Input channels are also protected against static discharge.
The BAUR handheld online PD detector PD-SGS is used to conduct rapid initial tests for PD activities on live switchgear. Potential weak points are immediately signalled acoustically and numerically. As safety equipment for daily use, the PD-SGS is used by test personnel to conduct a quick safety check to determine whether the work area around the switchgear is safe.

Features
- Measurement of PD which spreads across the surfaces of switchgear by determining the transient earth voltage (TEV)
- Detection of PD activities on switchgear components, such as busbars and cable accessories by means of ultrasound location
- Highly sensitive acoustic sensor for detection of ultrasound emissions
- Automatic detection of background interference signals
- Acoustic and numerical display of the ultrasound and TEV measurement results
- Acoustic output via headphone connection or integrated loudspeaker
- Two display modes:
  - Level (real-time signal level)
  - Trend (PD activity over a 5-second period)
- Bright, legible OLED display with dB indicator
- Very user-friendly handheld device with minimum training required
- Ergonomic and compact design
- Robust plastic housing with a protective rubber sleeve around the sensors
- Long-life rechargeable battery for a full day’s work
- Standard delivery includes function tester

Features:
- Ability to pinpoint PD activity to within 60cm
- Ultrasonic and TEV sensors for surface and internal PD
- Measures environmental conditions: temperature, pressure and humidity
- Records the severity of PD for diagnostic analysis
- Works with cables and overhead assets
- Tough, weatherproof case with built-in 8 hour battery
### Aerial Lift, Elevated Platform, Insulated Boom Testing

Aerial Lift, Elevated Platform, Insulated Boom Testing. Offers a portable line of AC high voltage equipment for dielectric testing of aerial lift platforms and trucks. The standard safety features combined with advanced metering make the Phenix line of aerial lift high voltage test systems the premium choice for testing single trucks to maintaining a whole fleet.

The precision digital metering equipped with a guard circuit to eliminate stray leakage currents ensures only boom leakage is measured.

Standard safety features include a zero start interlock, adjustable output overload circuit and short and long term thermal magnetic protection.

The oil-filled high voltage section is built in a rugged, fiberglass reinforced insulating tank which is light weight and durable for years of field use.

- Units feature easy to read digital instrumentation and clean, efficient controls
- Simple set-up and operation

**Testing Applications**

- Ideal for testing aerial lift devices and elevated platforms
- Capable of testing double and horseshoe liners (BK130/36)
- Complies with latest ANSI and IEC standards (A92.2 / IEC 61813)
- Suitable for common dielectric and insulation testing requirements

**Note:** This has a limit of 100kV and 30milli amp on top bushing, and 30kv and 140mA limit on a Side bushing

---

### Sub Station Testing

<table>
<thead>
<tr>
<th>Order Code</th>
<th>Product</th>
<th>Special Offer</th>
<th>Guarantee</th>
</tr>
</thead>
<tbody>
<tr>
<td>PGROUND</td>
<td>GEOHM XTRA Ground Resistance Tester</td>
<td>R32,984.82</td>
<td>Voetstoots</td>
</tr>
</tbody>
</table>

**Application**

- The GEOHM XTRA is capable of much more than just easy and reliable implementation of the most common methods of earth measurement.
- The measuring method for testing lightning protection systems under highly realistic conditions based on various types of the pulse measuring method is noteworthy in this respect.
- Thanks to extensive measuring accessories, earth measurements and resistance measurements can be easily implemented in any environment at any earthing or lightning protection system without disconnecting the earth electrode. Furthermore, a professional earthing analysis can be conducted on the basis of measured interference voltages and interference frequencies.
- The GEOHM XTRA is additionally equipped with an integrated GPS module for saving the positions of devices under test.
The TRF-250 is Vanguard's fourth generation transformer turns ratio tester. It provides a turns-ratio test voltage of 250 Vac. The TRF-250 determines the turns ratio of the transformer under test using the IEEE C57.12.90 measurement method. The turns-ratio range is from 0.8 to 50,000 to 1. Transformer turns ratio, excitation current, and winding polarity are displayed on the built-in 128 x 64 pixels graphic LCD screen. The TRF-250 can be used as a standalone unit or can be computer-controlled.

Features
- Ratio range: 0.8 - 50,000 to 1
- Capable of detecting 130 different 3-phase transformer types defined by ANSI, IEC, and Australian standards
- 4 test voltages available: 4Vac, 40Vac, 100Vac, and 250 Vac
- Phase angle and excitation current measurement
- Bluetooth and USB PC interfaces
- 4.5-inch wide thermal printer

ATRT-03 - 3-Phase Transformer Turns Ratio Tester
The Vanguard Instruments ATRT-03 S2 is the third generation, microprocessor-based, automatic, three phase and transformer Turns-ratio tester. This light weight, rugged, portable unit is designed for transformer testing at utility power substations.
- Highest ratio: 0.8 - 15,000
- Capable of detecting 130 different 3-phase transformer types defined by ANSI, IEC, and Australian standards
- 3 Test voltages available: 8Vac, 40Vac, 100Vac
- Phase angle and excitation current measuring
- Computer Interface (RS-232C and USB Port)
- USB flash drive interface
- Name-plate turns ratio calculation
- Computed % error based on measured and calculated ratio
- Powered from a single phase 100-264 Vac 50/60 Hz
The LTCA-40 accurately measures winding resistance of highly inductive power transformers. Triple resistance-reading channels allow the measurement of three winding resistances simultaneously. Four-wire (Kelvin) connections provide high accuracy and require no lead compensation. It has the ability to measure and graph the resistance trace of a transformer LTC during operation. Using a 60Vdc power supply, the LTCA-40 is capable of outputting 40 amperes.

Application:
- Resistance Reading:
  - Measures resistance from 1 micro-ohm to 500ohm
  - Programmable test current (1A, 5A, 10A, 40A)
  - Measures EHV circuit-breaker contact resistance, motor winding resistance or any low resistance.
- Dynamic Resistance
- AC Motor Current Monitoring feature
- Calculate equivalent resistance value at reference temperature
- Auto discharge circuit for operator safety

DTA 100C Portable – The portable oil tester 100kV
The breakdown voltage test is used to evaluate the degree of impurity in insulating oils due to foreign particles, gas and water. It meets current regulations and is economically useful to protect electrical systems such as transformers and switches, as well as, medical and security systems from breakdowns. The main reason for such damage is the poor condition of the insulating oil.
The oil tester DTA100C, is designed for continuous operation in the laboratory. This high performance instrument is characterised by the combination of extraordinary properties such as a test voltage up to 100kV, clear breakdown detection and absolutely reliable measurement results. The DTA100C is the leading testing instrument for users in the electricity industry, in testing institutes and other industrial applications.
DTA100C is set for the laboratory or site testing of transformer or switchgear oil. This tester has a rated output of 100kV RMS Symmetrical (centre earth) with maximum switch off time 6mS and switch off current of 4mA. The Oil Tester complies with SABS 555 & IEC 156 and is supplied with Corona Free Test Cell with magnetic stirrer. The dot matrix printer will automatically print out all six results, the mean value and its standard deviations.
TERMS AND CONDITIONS OF OFFER

BEE /SMME REPRESENTATION STATUS:
H.V. TEST (Pty) Ltd has been classified as a BBBEE company from 1st September 2005, and has been classified as a Level 4 Contributor.

PRICE BASIS:
The prices reflected above per unit and nett exclusive of V.A.T. Price based on collection from H.V. Test premises. All prices quoted above are per unit unless otherwise quoted. Ownership and title of all goods remain the property of H.V. Test (Pty) Ltd until payment in full is received by H.V. Test (Pty) Ltd. The risk of possession and associated duties of insurance passes to the purchaser upon receipt of goods.

DOMICILIUM CITANDI ET EXECUTANDI:
H.V. Test (Pty) Ltd chooses domicilium citandi et executandi for all purposes at the address as stated on the above letterhead.

DELIVERY:
Delivery can be achieved ex stock subject to prior sale. Deliveries are based from receipt of a returned and customer signed Order Acknowledgement and Payment made out to H.V. Test (Pty) Ltd after receipt of an official and signed order number from the client.

TERMS OF PAYMENT:
The price is based on the assumption that full payment is made upon placement of the order. Payment will be deemed to have been effected only upon deposit into H.V. Test (Pty) Ltd’s Bank Account at Standard Bank Rivonia. Payment to be made via Electronic Transfer or direct deposit only. Bank details will be given on Invoice or upon request. Cheques as a means of payment are not acceptable. Interest in the amount of 4% per month compounded monthly is payable on overdue accounts based from date of invoice.

LIMITATION OF LIABILITY:
H.V. Test (Pty) Ltd’s liability on any claim for loss or liability arising out of or connected with this contract, or the manufacture, sale, delivery, resale, or use of any apparatus covered by this contract (including but not limited to, loss or liability arising from breach of contract, negligence or otherwise) shall in no case exceed in the aggregate the unit price of such apparatus or part thereof involved in the claim. In no event shall the Company be liable for special indirect to consequential costs or damages.

CANCELLATIONS:
Any order placed on H.V. Test (Pty) Ltd by the client for the goods is deemed to be an irrevocable order. The full outstanding amount will be required to be paid in full in the event of the client cancelling the order.

Yours faithfully

Lizette da Silva | Sales Co-Ordinator
Phone: +27 11 782 1010
Mobile: +27 83 331 5316
Email: marketing@hvtest.co.za