

CRYPTON DIAGNOSTIC EQUIPMENT
























Catalogue 2012



IN TUNE WITH THE FUTURE

www.crypton.co.za

Catalogue Index:

Description	Page(s)
 Code Readers / Data Scanners / Reset Tools	Page 3-8
 Engine Tune Up / Ignition Oscilloscopes	Page 9
 Petrol Emissions - Gas Analysers – Stand alone	Page 10
 Petrol Emissions - Gas Analysers – PC based	Page 11-13
 Diesel Emissions - Smoke Meters PC based and Stand alone	Page 14-15
 Combined Vehicle Emissions Test Stations	Page 16-18
 PC based Combined Diagnostic Test Stations	Page 19-20
 Air Conditioning Recharge/Service Stations	Page 21
 Wheel Aligners	Page 22
 Wheel Pressure Sensors Diagnostics	Page 23
 Wheel Balancers	Page 24
 Tyre Changers	Page 25-26
 Brake Fluid Testers	Page 26
 Intelligent Battery Chargers	Page 27-28
 Intelligent Battery Testers	Page 29
 Educational Courses	Page 30
	
	
	
	
	
 About Us	Page 31
 Notes and Catalogue Disclaimer	Page 32
<p><i><u>Note:</u> Some items in this short catalogue may not be fully presented or presented at all!</i> Please phone Crypton Diagnostic Equipment if you require more information. Tel: +27 11 452-9062, Fax: +27 11 609-6766, or E-Mail us at: sales@crypton.co.za</p>	

Code Readers & Data Scanners

Omitec: Range of OmiPro Land Rover and OmiPro MG Rover



The OmiPro series is an integrated PC-based diagnostic solution for Rover and Land Rover vehicles. OmiPro is supplied with factory-installed software and technical data, covering a wide range of vehicle models. It provides the opportunity to diagnose faults reported by vehicle control modules and view 'live data' parameters in real time. The OmiPro allows the professional technician to read and clear faults on engine management, airbag, ABS and other

vehicle systems. The technician can also perform a range of adaptations and actuator tests dependent on the vehicle selected. Live data view monitoring with graphs, print and much more. Help and 'how to' is included in the software.

There are 4 different modules (T4OmiPro-Land Rover Pro, OmiPro-Mobile Land Rover, Land Rover UCM and OmiPro-Rover Pro,) which can be combined to work together for maximum diagnostic capabilities or obtained and used separately for minimum of outlay.



OmiPro-Mobile Land Rover (Stand Alone or as add on to T4-Pro or UCM)

This Mobile version of the T4 is almost as capable as the T4-Pro unit itself. The main difference is the back coverage of models. OmiPro-Mobile is for all Land Rovers with 16pin OBDII style diagnostic connector only. The Mobile covers models from 1994 to 2007*

UCM (Universal Communications Module) (Stand Alone or as add on to T4-Pro or OmiPro-Mobile)

The addition of the UCM gives you access to all Land Rover vehicles produced after 2002 incl. If you are after diagnosing the newer LR models only, this is your tool.



The MG Rover and Land Rover specialized OmiPro series were developed in conjunction with the vehicle manufacturers. It is the only tool available that delivers the same performance levels as the Land Rover & MG Rover dealers worldwide.

The kits are supplied with laptop PC; cables and software in a laptop style carry case and contain all of the items in order to run the diagnostic software at the most competitive and cost effective price in the market. Mobile and UCM can be supplied without Laptop if you wish to use your own one*

*Subject to Laptop/PC specification compliance.

Omitec: OmiScan-II Code Reader & Data Scanner

The New OmiScan-II from Omitec is packed with a whole host of vehicle manufacturer coverage and system coverage and more importantly is now housed in a state of the art handset which is both ergonomic and robust for tough garage use.

The new OmiScan was born from 'Plug and Play' philosophy which has made the New OmiScan easy to use and easy to update. This, combined with the fact that it is supplied with only one cable (that fits all), makes the OmiScan an excellent diagnostic choice for any garage.



The new OmiScan covers 31 vehicle manufacturers in depth, including the following systems: EMS, TPMS, ABS, SRS, DSC, ESP, electronic parking brakes, service light reset, immobiliser, body control, transmission, security, door management, climate control, light control modules, electronic suspension, cruise control, park distance control, electro-hydraulic power steering, particulate filter and steering angle sensor - with more applications coming on regular bases.

These, together with key programming and ECU programming on a large range of systems, makes the OmiScan the ultimate choice on the market for the professional technician.

All hardware is built into the handset which enables one cable to connect to all post 1996 vehicles fitted with a 16-pin connector. All CAN communications and multiplexing are dealt with internally and alleviate the need for extra harnesses when used on post 1996 vehicles.

- Easy to use
- Born from 'Plug and Play' philosophy
- Quick Response
- Ergonomic and tough handset
- Wide range of vehicle coverage
- Easily Updated by the Internet
- Simply consists of handset and 1 cable
- Designed and manufactured in the UK
- High Visibility clear Display



Options:

Adaptor Cables:

A selection of adaptors and cables to allow connection to pre 1996 vehicles.

Software Upgrades:

12 Month Software Update Subscription includes 3 updates per year downloadable from CD or via the internet.

Please visit www.crypton.co.za or phone us for more product information!



Crypton: Cypher Code Reader & Data Scanner:

PC based diagnostics are becoming an increasingly common sight in workshops today. They offer an ideal platform for a wide variety of diagnostic and information software. The CYPHER system from Crypton comes neatly packaged as a complete kit that can include either the Quad Pad, a standard laptop or even on its own to be used with your own laptop. How you want to have it is up to you....



Both European and Asian vehicle manufacturers are covered with an impressive depth of coverage. Using a Windows based operating system, navigation around the system via icons and menu screens are straight forward. Choosing the manufacturer, model and engine management system from the menus CYPHER will tell which connection lead to use (plus any adapters for older vehicles) and the location of the diagnostic socket.

The system will display and clear fault codes and extract live data. Live data is a particularly useful feature for a more in depth analysis of vehicle problems, CYPHER has particularly easy to use live data functionality. The menus will list available systems that can be accessed and the data can be displayed either numerically or as a histogram. This graph format plots the operation of a sensor over a short period of time. You can view up to four plots at any one time in this mode, and this system is able to take 'snap shots' of the live data.



Other features include:

Continuous Operation regardless of update version! Regular and easy to load updates.

Live readings shown in numeric or graphical form for easy analysis.

Clear navigation through procedures and tests. Reads/Clears Fault codes and displays fault code descriptions. Wide Manufacturer and function coverage, Vehicle Data Information Link, Actuator Testing and Auto System ID (where available)

USB or COM Connection to PC, Wireless or cabled versions.

High Impact rugged interface protection. Tablet version has a touch screen.

Optional: Legacy cable kit for Pre EOBD vehicles (i.e. pre year 1996) supplied in a separate briefcase.

CDE: CS538D Code Reader & Data Scanner

This is the best Unit we've seen so far that has wide and deep enough vehicle coverage that won't require you to 'break the bank' or rob a mall. All in all is the best value for money vehicle diagnostic Data Scanner we can provide to you. The Data Scanner is very sturdy build, with large LCD color screen, black rubber outer shell and adjustable handle. It has only 6 navigational keys which makes scrolling through its menus a breeze. If you can read...then you can do! The Unit and all accessories come in a single well packed and very sturdy briefcase. What you see is what you get.



Key Features:

- Supports all protocols including the latest CAN+, VAN
- Support most car makes today including new Chinese and Malaysian made vehicles
- Large Color Display with Live + Pass/Fail Sensor Values. Fully customizable display view.
- Can Store up to 4 individual (for a vehicle model) Good Known Live Values. Plus, it has one manufacturer entry already for reference. Pass or Fail values are displayed in different colors which makes pinpointing a troublesome sensor/actuator very easy to pick up. You can store good Live Data Values from the car's Sensors/Actuators in to the unit for later reference against the cars you will be fixing!
- This set comes with ALL available plug-adaptors for diagnosing older vehicle makes!!! About 30 of them...
- The Data Scanner has incorporated Printer for DTC printing.
- Live HELP for DTC's and general unit usage. Almost all DTC's have Help screen access with DTC explanation, troubleshooting and possible remedies. Why, where and how-to guidance!
- PC connection via USB/COM for updating the unit. Updates are available via Internet or you can contact us for the latest one.
- VGA connector for plugging to a large LCD screen.
- NON-Lockable, NON-Expiring software with FREE UPDATES coming out four times a year.



CS538 - Vehicle Coverage* - more than 52 manufacturers

Region: Country (Vehicle Manufacturers)

EUROPE: Germany(7), France(3), Italy(1), UK(1), Sweden(2), Russia(1)

ASIA: Japan(9), Korea(4), Malaysia(2), China(17), India(3)

AMERICA: USA(3)

OCEANIA: Australia(2)

Standard OBDII / EOBD coverage is also included.

Please visit www.crypton.co.za or phone us for more product information!

Launch: X431 MASTER

This Code Reader and Diagnostic Scan tool is the most versatile diagnostic unit available from Launch to date and is based on “open diagnostic platform” technology.

It is compactly designed incorporating a large LCD touch screen and integrated mini printer. The X431 MASTER comes packaged in a robust carrying case, complete with all necessary adaptors, all stored in their individual compartments for easy selection. A complete workstation on its own.



The X431 MASTER uses computer technology to scan the trouble codes in various automobile systems. Read DTCs, Data stream, Actuation test, Sensor waveform display and ECU coding. The test results are displayed on the LCD screen in the form of characters, digits and waveforms, etc or it can be printed out. The user is able to identify the possible trouble type, cause, location and trouble shooting solutions on the vehicle according to the displayed information. It can also clear the trouble code once the vehicle has been repaired. It can test most of cars by using the unique 16 PIN connector which integrates the function of all 16 PIN connectors of X-431. 12V/24V operating voltage capability is added to work with different kinds of batteries. The connection of the X431 MASTER to the Vehicle ECU is via a cable.

The X431 MASTER uses the Linux operating system and adopts a “SMARTBOX” for vehicle diagnosis of the various vehicle manufacturers. The test can be automated and computerized. It features high automation, powerful functions, large database, multi-language, compact structure and easy operation

The X431 MASTER comes with 12 Month Factory Warranty and “one year” free software updates, which can be downloaded via the internet at any time and date.

The software is “Specific to South Africa” and can only be obtained and be downloaded once the unit has been registered in China by Launch Technologies SA (Pty) Ltd.



CDE: OBDII / EOBD / CAN Code Reader

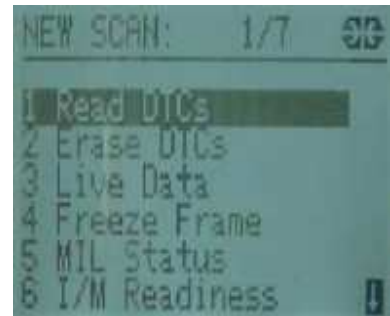
This Hand held EOBD and CAN code reader is a little wonder tool. It's an ideal tool for the concerned workshop diagnostician as much as for the DIY enthusiast.

It connects to all vehicles equipped with the OBDII standard 16pin socket as long as the vehicle is OBDII / EOBD / CAN enabled. It reads and erases the DTC's, show's live engine data and ecu's "monitors" status. Really simple and fast to operate unit with only 5 buttons for navigation and it has a build in rechargeable L/Ion battery.



Key Features:

- Supports all OBDII / EOBD protocols including ISO 9141-2, J1850-PWM, J1850-VPW, KWP2000 (ISO 14230-4) and CAN (ISO 15765-4).
- It's database consists of more than 7,000 generic OBDII / EOBD codes such as Powertrain(P0, P2 and P34), Body (BO), Chassis (C0) and Network (U0).
- It even has most common manufacturer's specific DTC's, it has more than 10,000 codes (P1, P30, B1, B2, C1, C2, U1 & U2) in it's database.
- It reads and erases DTCs, displays Live data, Freeze Frame (FF), MIL Status, I/M Readiness, Vehicle Information (VIN).
- It automatically saves the last tested vehicle's results for later reviewing without having to scan again.
- Built-in rechargeable battery - doesn't need external power for viewing saved codes. The battery charger is supplied.



Trisco: DIY Reset tools for Service / Inspection, Oil Light(s), Air Bag(s) Light



Service lights are illuminated, in most modern vehicles, when the vehicle is due for its next service. This series of DIY Oil Service Reset Tool allows car users to reset the Oil Service, Inspection Service and Airbag lights once the service has been done.

The range is also a useful low cost addition to any self-respected workshop's arsenal of diagnostic tools.

Covered vehicles:

BMW, Mercedes Benz, Volvo & VW / Audi.

Functions:

- Oil lights Reset
 - Service Light Reset (Inspection Light)
 - Air Bag Light Reset
- ✓ Attractively priced (as usual).

Engine Analysers / Automotive Ignition Oscilloscopes

Crypton: CMT2010-SA Vehicle Diagnostic Workstation



Based on a high performance Windows-TM based PC platform the CRYPTON CMT 2010 provides full engine diagnostics for petrol engine vehicles. Add to that a vehicle visual inspection program, save to disk facility, fully formatted printout, help wherever you are in the program, and a range of options that includes M.O.T. emissions testing (petrol & diesel), diesel diagnostics, fault code reading, and component scope software, and you have everything you need to identify and repair faults quickly and efficiently. Work Smart, don't just work more.

Additionally you can print invoices connect to the Internet or other PC's in the workshop or the office, store customers data, use the PC for anything a PC can be used for! Make it the Hub of your workshop now as almost all new equipment comes with PC communication facilities.

- Testing is made easy with automatic and manual component based testing for accurate diagnosis. After the automatic test a pass/fail diagnosis is displayed and can be printed out for yourself and the customer as a fully formatted A4 printout.
 - For repair work there are manual adjustment screens, with the additional aid of expected limits displayed on screen. Also included is a visual inspection test to promote additional workshop repairs.
 - The integrated full DIS software facility provides convenient operation, with the help of some additional adaptors, even when primary connections are not available, and includes an automatic polarity test with individual clips, and cranking and power balance tests.
 - Multi channel scope and multimeter. Finding faults on the complicated management systems of today's vehicles can be time consuming and, at times, hit and miss. Solve those problems with a guided scope display for pinpoint testing of individual components, with clear but comprehensive information and help on function, typical values and rectification. Easy to use with preset scope ranges & flexible scope program.
 - Includes: PC with CD ROM, LCD Monitor, A4 Printer, Integrated CMS2 Menu & IETD3 Engine Test Preloaded Software + Scope Software Free Run Timebase with Integrated Record for Fault Finding, Swivel boom for EAM, Amps. measurement clamp, SAK accessories kit. All on a sturdy wheeled cabinet for easy movement. Fully lockable.
- | | |
|--|----------------------------------|
| ➤ <i>Automated Tune-Up Tests</i> | ➤ <i>Manual Adjustment Tests</i> |
| ➤ <i>Auto Tests & On Screen Help</i> | ➤ <i>Multiple Channel Scope</i> |
| ➤ <i>Colour Pass & Fail Test results</i> | ➤ <i>Digital Bar Graphs</i> |
| ➤ <i>Comprehensive Print Out's</i> | |

There are plenty add-on's possible, please phone for more information.

Add-On's: Code reader, Smoke meter, Gas Analyser, Vehicle Information software, etc. etc.

This Diagnostic Station also makes the perfect educational tool for future automotive technicians.

Please visit www.crypton.co.za or phone us for more product information!

Petrol Exhaust Gas Analysers - standalone

Crypton: 4 / 5 Gas Analysers



Models: 297EN1- 4 gas, 297EN1/5- 5gas

Latest technology, non mechanical NDIR gas benches, with high stability and long life.

Water condensation separation with automatic expel.

Large LCD Display with easy touch keyboard.

Measure resolutions: 00.01

Fast Warm Up and high delivery dual pumps.

Complete with exhaust probe and 8m. sample hose.

- Very Fast Initial Warm Up Period = 5min. and rapid response
- OIML Class I or II approved
- 4 or 5 Gas CO/HC/CO₂/O₂/(NO_x) readings
- Calculated Lambda with Leaded/Unleaded /LPG settings
- RPM Display with 2 or 4 stroke - (DIS Option)
- Automatic Calibration, Zeroing and O₂ span
- Automatic Leak Detection (Vacuum)
- Automatic HC Residue Test (The amount of tolerable HC in workshops frequently reaches above "normal" levels, leading to increase and fluctuation of HC readings. This test measures the HC residue in the surrounding air.)
- Unique Automatic MOT TEST facility for emission control and legislation

Omitec: OmiScan Gas 4 / 5 Gas



5 gases Measured HC, CO, CO₂, NO_x, O₂

Measurement accuracy meets or exceeds requirements for OIML Class 0 and BAR97

Lambda and Air Fuel Ratio measurement.

Very Fast Warm up and Response Times.

Battery powered – Up to 4 hours continuous use, charge time 4 hours max. Battery Charger included.

Wireless Bluetooth Handset with range in excess of 30 feet.

Light weight, rugged compact construction with integral carry handle and charging dock for handset. Quick release - sample hose with optional extension hose.

Optional: Wireless Bluetooth OBD interface module

for RPM and Engine Temperature readings.

Data logging function – including Date and time. Up to 1 hr Live Data Storage on handset.

On board Analyser Diagnostic functions. USB connection on handset for interface with PC Gas Analyser software for data printout and comprehensive graphing functions. PC application has

comprehensive fault diagnostics menus to aid trouble shooting; Graphing function, either as a live plot or as bar graph for individual gases. User functions to define test parameters and customized tests and to add data to graphs. Print out results with workshop and customer details

Omitec: OmiGas



The OmiGas is a trolley-mounted infrared 4 gas emissions analyser, incorporating solid-state technology. It is designed to meet and be part of the Vehicle Inspectorate (VI) computerised testing programme.

Measured gases: CO, HC, CO₂, O₂

The equipment also includes Basic Emissions Test (BET) and can also provide the technician with on-screen gas values for diagnosing engine problems.

Kit includes:

- ✓ Trolley
- ✓ OmiGas unit
- ✓ OmiGas handset
- ✓ Keyboard
- ✓ Printer
- ✓ Sample probe
- ✓ Standard RPM probe
- ✓ Oil temperature probe

Features:

- Purpose designed, robust trolley stores all equipment and probes.
- Solid state technology offers increased reliability and stability
- Latest high technology design features 'Fast Warm Up' and easy maintenance reducing downtime.
- The handset features large backlit LCD display with fully- prompted on-screen testing procedure.

What to look for when choosing a Gas Analyser?

First and foremost, back-up service and maintenance. Most gas analysers have to be recalibrated (or at least checked) to maintain optimum accuracy at least once a year. This can be a costly exercise, so always ask "how often & how much?" Avoid investing in equipment that has poor service or repair when needed. User maintenance (on modern units at least) is usually limited to changing the filter/s when necessary.

Be sure that it has acceptable printing capability. Some gas analysers only print on small print-roll sized paper, making the readout small and abbreviated - you can decide if this is the image you want to present to your customer when handing him the results.

Does it include customer's names (and yours) in the printouts so that you can quickly identify the reports?

Does it have customer database and emissions test result storage for later printing or evaluation (especially when you're a busy testing station)?

Can it record and store gas values for later evaluation?

Can it be upgraded to include 5th gas analysis if desired, and what does this involve and cost?

Does it offer any emission diagnostic or troubleshooting functions?

What else does it have to offer when compared to other makes and models?

Will it provide you with any help when you need it?

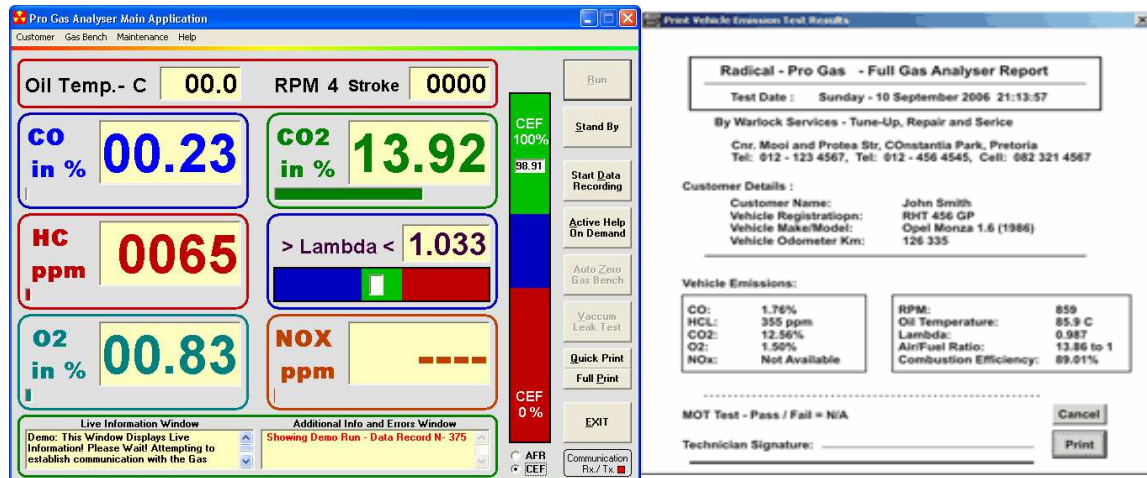
Does it have automatic vapour / water extraction?

Is it reasonably priced for what it offers?

Is it good value for money?

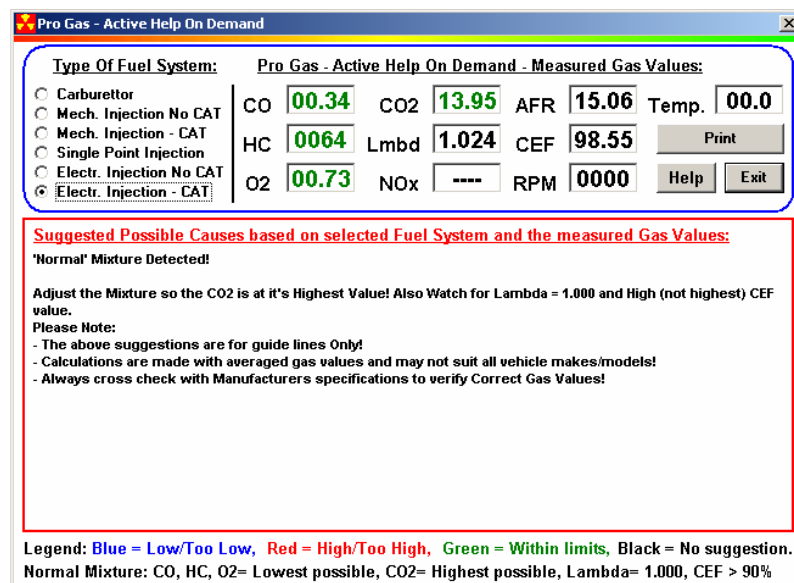
Petrol Exhaust Gas Analysers – PC based

Pro-Gas 4 or 5 gas analyser *(too many features, please phone for more info)*



Why Choose the Pro-Gas Analyser?

- **Extremely Fast Warm-Up & Auto Zero** – both in less than one minute - saving you time!
- **Records** exhaust gas data for up to 24 hours if necessary, enabling detailed prolonged analysis.
- **Customer database** with Search / Print capabilities for your quick reference to customer / vehicle analysis history for future use and comparison
- Different **printing** formats to choose from - detailed reports for customers or a short one for yourself only - you choose!
- **Auto help on demand** feature with suggestions as to possible causes of non-optimum readings - giving you a live, real time trouble shooter
- **Checks catalytic** converter efficiency as well as engine combustion efficiency in percentage, aiding your diagnostic and tune up capability
- **Automatic** exhaust water / vapour extraction system and low vacuum / air flow warnings providing one less detail for you to think and worry about, making the instrument less demanding and more user friendly.
- Measures RPM (2 or 4 stroke) and temperature providing versatility to suit your requirements.
- Easily upgraded to 5th gas (NOx). Connect the appropriate sensor, calibrate and it's done.



This gas analyser is the **best** so far with too many features to mention here due to space limit.

Very stable; you may never need to re-calibrate it!

PC based, with excellent visibility and large colour digit display on the PC monitor makes it easy to read from as far as 5 meters.

Intuitive, locally developed, software with more than

50 pages of Help on understanding and troubleshooting exhaust emissions.

Demo of the software is now available for download from www.crypton.co.za

Crypton: CGP700-C

The Crypton CG7600-C is a completely integrated MOT gas analyser. It combines state of the art technology with Windows™ based programs. To test today's petrol vehicles you need a VOSA approved catalyst emission tester with a program that can be easily updated as legislation changes, a vehicle database that is simple to update combined with an analyser that is economical to buy, easy to use and reliable.



Features:

- VOSA approved
- 3 year parts and labour warranty
- Fast warm-up (1 min typical)
- Clip-on RPM measurement
- Oil Temperature measurement
- Integrated customer database
- Automatic printout
- 17" LCD Monitor
- Gas Analyser is accurate to OIML 0 and Upgradeable to Diesel MOT !

Options:

- CDSS2 Universal Vibration / Ultrasonic RPM Measuring Kit
- CDSS3 Battery Tachometer
- TFT Flat Screen with black keyboard and mouse
- Digital Diesel Smoke head with software

Omitec: OmiGasPC



The OmiGas PC provides vehicle technicians with a complete petrol emissions testing solution.

The fully integrated, PC based equipment offers 4 gas testing for both vehicle workshops and MOT testing stations.

Purpose designed, robust trolley stores all equipment and probes. PC with 17-inch TFT colour monitor, 40Gb hard drive, CD drive, keyboard, mouse and A4 printer. All software is factory installed and tested.

Solid state technology offers increased reliability and stability. Latest high technology design features 'Fast Warm Up' and easy maintenance reducing downtime.

Diesel Smoke Meters - PC based

Crypton: DX260Kit - PC Based Diesel Smoke Meter Kit

1x - Diesel Smoke Opacity Meter Head

(wired version with 10m cable)

1x - Universal Power supply

1x - USB connection cable

1x - Flexible Stainless Steel probe

This "bare bone" Diesel Emissions Kit will give you all of the advantages of the DX260SA but for a far less outlay. All you need is a Laptop with printer and the DX260Kit to produce legitimate diesel emissions test results.



Measure:

Smoke Opacity in % (HSUnits), (old SA system)

Smoke Density in ($k\ m^{-1}$), (New SA system + rest of the world) ($k\ m^{-1}$ coefficient of Light obscuration per linear meter for a smoke column)

Fast-Pass™ Test

Free Acceleration Test

VOSA MOT/DOT Legislative Emissions Tests with Pass / Fail and A4 Printouts. Fast WarmUp

Major fleet operators, service workshops and MOT stations alike will benefit from the smoke meter's accuracy, reliability, and ease of use.

Engineered to cater for all types of diesel-engine vehicles - from cars and light vans, through to trucks, coaches and HGV's - the DX260 Smoke Meter will help you meet the environmental demands and legislative requirements of the new millennium.

It includes the new HGV Reduced Pollution Certification test (RPC) enabling fleet operators to reduce running costs.

Extremely low maintenance unit. No filters to change and no moving parts. Very robust Smoke Head. No other Smoke meter beats the low cost and accuracy of the DX260.

Crypton: DX260-620

The DX.260-620 is primarily designed for use on the UK MoT Test. Unit is based on the same robust DX260 Smoke head above.

Options:

- Battery Tachometer or Cableless Battery Tachometer
- Wireless Remote Handset (for Bluetooth models only)
- Commercial Sampling Pipe with Quick Release
- Vertical Stack Sampling Pipe
- LCD Flat Screen with wireless keyboard and mouse
- Bar Code Scanner for easy data input



Diesel Smoke Meters – Stand alone

Omitec: OmiSmoke



The OmiSmoke is a compact next generation diesel emissions tester with Category A and B approval for MOT class 4,5,6 and 7 vehicles.

A fully-portable handset with prompted test procedures come as standard. To accurately record test results, the handset has an integrated thermal printer.

This unit is not PC based, but the same smokehead is used in the PC based Omitec Emission stations.

Features

- Compact and portable diesel emissions tester meeting Category A and B requirements
- Fast warm up in under 2 minutes
- Smart battery management and FAS test to save time and money
- Can be used stand-alone, as part of OmiEmissioncenter or OmiTechcenter
- Optional wall bracket for convenient storage

Kit includes:

- ✓ Smoke head
- ✓ Handset
- ✓ Sample probe
- ✓ Oil temperature probe
- ✓ Gel battery
- ✓ Smart charger/mains power supply
- ✓ Auxiliary 12V battery leads
- ✓ Linearity filter
- ✓ Instruction manual
- ✓ Vehicle Inspectorate Executive Agency approval

Optional extras include:

- Wall mounting bracket (for OmiSmoke, handset, probes and charger/supply)
- Category B sample probe

Emission Diagnostic Stations

Crypton: STP-720 Series



The Crypton STP720 is a MoT Approved, integrated **gas and smoke analyser** combining state of the art digital technology. The unit comes complete with oil temperature probe, inductive RPM Measurement (gas only), A4 printer, and 17" colour monitor all housed in a rugged roll-around cabinet.

Updating is easy - the annual VOSA petrol vehicle update and any changes to the program procedure / test limits is done simply by loading a disk, no service visit is necessary.

Features:

- MOT Approved for classes III, IV, V & VII
- Accurate to OIML 0, Complies to latest VOSA Regulations
- Automatic calibration of smoke head

Options:

- Choice of tachometers using battery pick-up, ultrasonic and vibration technology
- Commercial vehicle sample probes for central and stack exhausts
- TFT1 Flat Screen with black keyboard and mouse
- Bluetooth® or Cable Version
- Option to add EOBD / Flight Recorder Module
- Oscilloscope, Cabled Digital Multimeter and Electronic Tool Box Module
- CDSS1-620 Universal Vibration / Ultrasonic RPM Measuring Kit
- CDSS3 Battery Tachometer
- Wireless Temperature Probe
- Wireless Remote Handset

Omitec: OmiEmissioncenter



The OmiEmissioncenter provides vehicle technicians with a complete emissions testing solution.

The fully integrated, PC based equipment offers **smoke and gas testing** for both vehicle workshops and MOT testing stations.

(a) Features:

- Purpose designed, robust trolley stores all equipment and probes
- PC with 17-inch TFT colour monitor, 40Gb hard drive, CD drive, keyboard, mouse and A4 printer. All software is factory installed and tested.
- OmiGas is a compact, future-proof petrol emissions tester. Latest high reliability design reduces downtime by featuring 'Fast Warm Up' and easy maintenance.
- OmiSmoke is a next generation diesel emissions tester meeting Category A and B requirements. Built in smart battery management and FAS test saves time and money.

Kit includes:

- ✓ Trolley
- ✓ OmiGas unit
- ✓ OmiSmoke unit
- ✓ Keyboard
- ✓ Printer
- ✓ Sample probes
- ✓ Standard RPM probe
- ✓ Oil temperature probe
- ✓ Instruction manual
- ✓ VI approval

OCE: DX280-SA Vehicle Emissions Test Station – Diesel and Petrol

The VOSA approved DX280-SA is a combination diesel and petrol exhaust emissions -Test Station that caters for all vehicles, cars, vans, trucks and buses plus light and heavy plant machinery. MOT Approved for classes III, IV, V & VI.

Meets & Exceeds - EPA, OIML class 0, ASM / BAR97 accuracy requirements.

This PC based, modern, diagnostic equipment combines state of the art technologies used by many government agencies today to monitor and control Vehicle Exhaust Emissions.

Whether you are an official testing station or an after market repair workshop, the DX280-SA will perform to your expectations.

Being PC based, gives the test station the opportunity for further integration with existing structures and networks. Using well recognized Windows operating system as its core the test station can multitask saving you time and money.



The simple and clear software guided tests makes the operation a breeze for the operator. The in depth print-out results that your customers can understand makes this test station very user friendly and easy to operate.

The DX280-SA is housed in a large industrial quality trolley with lockable compartments. Roller bearings swivel wheels with brakes cater for safety and stability during operation and easy of relocation should the need arise.

The trolley has 8 large lockable draws for secure storage of equipment, spare goods and print-outs.

The Large 20" color LCD display helps you see the results from even further, thus making it easier for the operator to complete the tests.

The DX280-SA Testing station also has an UPS for power blackouts and to aid against power surges.

Includes:

1x - Multifunctional Trolley with lockable draws, swivel wheels & locks

1x - Back Up UPS for power fails & surge protection.

1x - DX260 Diesel Smoke Analyser

1x - Pro-Gas-4 Petrol Emission Analyser

1x - A4 B/W Laser Printer with free box of A4 paper

1x – Industrial PC with 20" LCD screen, keyboard and laser mouse.

Dimensions: H 110cm / W 110cm / D 55cm

Combined Diagnostic Stations

Crypton: EDP-800 Series



If you ever wanted it all...this is it!

The 800 Series is the professional range of VOSA approved gas and smoke analysers combined with ultimate Cypher diagnostic system that tells you where to fix it, how to fix it and the parts you need to fix it!

The Crypton Onboard diagnostic expert system provides the complete solution to diagnosing and fixing vehicle system problems by using EOBD based diagnostics and information. The Cypher software provides pinpoint diagnostics to component level from a single OBD connection allowing diagnosis to be done using vehicle fault codes or individual component live readings. Codex provides comprehensive information on component function, location and expected normal readings; the integrated measurement tools can then be used to pinpoint the cause of the fault.

Also features an oscilloscope which has a dedicated automotive menu featuring sensors, actuators, ignition

(primary and secondary), connection procedures, example waveforms and system overviews.
(Note: Model Shown EDP830-EN540BT with optional TFT1 – Flat Screen with black keyboard and mouse)

Features

- ✓ Combination Digital Smoke meter and 4 Gas analyser
- ✓ Onboard fully integrated Diagnostic functions.
- ✓ Cypher Data Scanner & Code Reader
- ✓ Fully compliant to ISO15031 EOBD system
- ✓ Unique Flight Recorder for Intermittent Faults.
- ✓ Read and clear fault codes
- ✓ Live Data View and Store
- ✓ Vehicle data information
- ✓ Pinpoint diagnostics to component level
- ✓ Dual Oscilloscope with Integrated measurement tools
- ✓ Temperature and RPM measurement
- ✓ Fast Battery, Alternator and Relative Compression Tests.
- ✓ MOT petrol emission software including Basic Emission Test.
- ✓ MOT Diesel Smoke software including Fast Pass Test Factory ready for MOT central computerisation schemes.

Omitec: OmiTechcenter



The OmiTechcenter is the very latest from Omitec in integrated modular diagnostic tools.

Utilising a conventional PC platform with factory installed operating software, OmiTechcenter is the ultimate tool for the professional diagnostics technician.

Designed in modular format the basic OmiTechcenter is expandable to allow the integration of a complete range of diagnostic tools and software for the test, measurement and diagnosis of electrical components and engine systems.

Features:

- ✓ Purpose designed, robust trolley stores all equipment and is expandable.
- ✓ PC with TFT flat-screen colour monitor, 40Gb hard drive, CD drive, keyboard, mouse and A4 printer. All software is factory installed and tested.
- ✓ The home screen allows rapid navigation to the required test routines.
- ✓ The on-board docking station allows OmiScan to be used as part of the overall workstation or remotely when data is collected and downloaded later.
- ✓ CAPS (Computer Aided Problem Solving) is a widely used technical workshop manual designed specifically for the professional diagnostic technician.
- ✓ OmiScan is the scan tool of choice that directly links through OmiTechcenter to CAPS when in the docking station.
- ✓ OmiScope is a hand-held or PC based 4 channel digital labscope and engine analyser with up to 8 waveforms displayed simultaneously.
- ✓ OmiGas is a compact, future-proof petrol emissions tester. Latest high reliability design reduces downtime by featuring 'Fast Warm Up' and easy maintenance.
- ✓ OmiSmoke is a next generation diesel emissions tester meeting Category A and B requirements. Built in smart battery management and FAS test saves time and money.
- ✓ Every OmiTechcenter is supplied with a 3 year warranty, a one day off-site training course and all software updates during the first twelve months.

Options: Due to the modular design of OmiTechcenter, it is available in many different configurations to suit individual requirements.

Crypton: CMT2010-SA Vehicle Diagnostic Workstation – See Page 9

Please visit www.crypton.co.za or phone us for more product information!

Air Conditioning Recharge Stations



Launch: Value-200: Fully automatic Automotive Air Conditioning Service Equipment with electronic process control and integrated printer for use on R134a gas systems.

This unit offers you the highest level of practicality available from any such equipment on the world market.

All processes take place fully automatically. A LCD display automatically shows you the individual cycles as well as any eventual faults and reminds you, for example when the system maintenance is due.

Features:

- Fully automatic machine with gauges for high, low and flask pressure
- Recovery, reprocessing, drainage, vacuum of used oil / gas and injection of fresh oil / gas.
- Process is fully automatic or can alternatively be manually controlled.
- LCD Display shows current process stage
- An Electronic weighing system measures the amount of recovered oil and allows for new oil to be added automatically or at a predetermined level.
- Audible warning of high pressure, empty and full refrigerant flask
- Safety device for automatic system shut-off during the recovery process
- Automatic monitoring of leaks in the air conditioning system during the bleed phase

The following operations can be carried out automatically without action on the operator's part:

- ✓ oil separation
- ✓ evacuation
- ✓ monitoring of leaks
- ✓ topping-up of oil and refrigerant
- ✓ monitoring system pressure and data printout
- ✓ audible signals with automatic switch-off when the cylinder is full and at the end of the evacuation phase
- ✓ audible and visual alarm if the cylinder is empty
- ✓ signal on display for incorrect procedure
- ✓ automatic maintenance reminder signal

***Value-100:** Semi-automatic Automotive Air Conditioning Service Equipment also available.

Wheel Aligners

Launch: KWA300 - 3D Wheel Aligner

So, you always wanted a modern Wheel Aligner machine that is up to date with the latest vehicle technology, but never had the funds for one? Not anymore! The all NEW KWA300-3D Wheel Aligner from Launch is here! Actually it's a 4D technology working in a 3 dimensional world!

No more:

- Heavy, Cumbersome CCD cameras to attach or fall-brake and recalibrate.
- Damaged, tangling in your feet or cut by the lift expensive connection cables.
- Nuisance interference from light or other devices.



Welcome to:

- **Uncluttered** working environment. - No cables to cut or trip on to, no expensive and heavy heads to drop. Instead you have very light but durable Passive Targets for attachment to the wheels.
- **Voice guidance** and Test prompts. - Work and listen, you don't even have to look so often at the Huge LCD color Screen although one can't help but marvel at it.
- **Animated Walkthrough** screens. - CGI like animated graphics guide you through the entire wheel alignment process.
- Range of **Professional Print-Outs**. From Graphics to plain Text, you choose what your customer will see in the final report.
- **Real User friendly** and Intelligent software with Huge vehicle database and regular Updates. - Custom vehicle data entry, Customer details Data Base, South African data.
- **Demo Mode** for Learners or **Expert Mode** for quick turn around workflow.
- **High Quality** Quick Action Clamps, Steering Wheel Lock, Brake Pedal depressor, etc.
- **Real Time** Dynamic compensation measurement and adjustment. Runout made easy!
- **Set and Forget** - Once the 3D has been calibrated for you may never need to do it again*
- **Pit or 4-Post** Lift installation- Your workplace, your choice. We say - No Problem!



Extras:

- 4-Post Lift certified for Wheel Alignment use with High Quality Ram-tops, Mechanical Turn Tables and movable Scissor Jack in the middle.

NOT Quite ENOUGH? How about we give you that **4-Post Lift together with the 3D Aligner**, all for the price of some other wheel aligner machines alone? Or, we upgrade your existing system with our 3D wheel aligner kit for a fraction of the price? Give us a call...

Wheel Pressure Sensors Diagnostics



Omittec: OmiDetect



The OmiDetect is a diagnostic tool for **activating and checking** Radio Frequency (RF) **wheel sensors** as fitted to new tyre pressure monitoring systems.

The OmiDetect can also check **Remote Keyless Entry (RKE) transmitters**, both at RF frequencies and infrared (IR) transmissions. The OmiDetect connects via the vehicle diagnostic socket and relays information to a clear easy to read display.

Omittec: OmiTire Plus



OmiTire Plus is the complete solution for tyre fitters wishing to test or replace Tyre Pressure Monitoring System (TPMS) valves. The kit contains an **OmiDetect** for activating and checking that tyre valve sensors are working and an **OmiTire** for **reprogramming ECU's** to accept new valves or re-registering existing valves. The technician will find this tool essential when working with vehicles equipped with TPMS. The OmiDetect will activate a wide range of TPMS valves for testing prior to and after tyres have been fitted or for registering the valve on the vehicle's ECU. It gives results instantly and is simple to use. The OmiTire connects via the vehicle diagnostic port and will

programme the ECU to register new valves or re-register existing valves if wheels have been moved into different positions. The OmiTire Kit is designed to allow technicians to replace damaged or expired valves without having to send the vehicle back to the main dealer. Simple, prompted steps allows the valves to be checked, registered and to make the system operational.

- ✓ OmiTire is also housed in a rugged rubber boot and draws its power direct from the vehicle. The handset is lightweight and easy to use.
- ✓ The kit is supplied with a J1962 Universal Multi-way harness, providing access to different vehicles' ECU's, and an extension cable so that one man operation is achieved when used in conjunction with the OmiDetect.
- ✓ The kit is supplied with comprehensive instructions that include manual procedures for systems that do not require a tool.
- ✓ TPMS valve sensors (direct systems) activation test for Schrader, Beru, Siemens and many other makes.
- ✓ TPMS valve sensor transmission check for where direct activation is not supported on the vehicle.
- ✓ Pressure loss check for RF sensors.
- ✓ ECU programming on a wide range of vehicle types (where TPMS is fitted) including: Renault, Peugeot, Citroen, Fiat, Alfa Romeo and many others

OmiTire Plus Kit can be updated in the future to cover new vehicle applications.

Wheel Balancers

Launch: KWB-402: Computerised Wheel Balancer for Passenger Cars and LDV's

- Works with standard Steel and Alloy Wheels
- Max Wheel weight - 55kg
- Rim diameters from 10" to 22"
- Rim Width 1.5" to 13"
- Manual input of Rim Data
- 3x Programs: Conventional, Optimization and Split weight Balancing
- Self calibration and Diagnosis. One gram Accuracy.
- With wheel guard, rim width caliper, wheel weight pliers and centering cone flange set with quick release wing-nut
- 220/250v single phase power requirement



KWB-503: Computerised Wheel Balancer for Passenger Cars and LDV's

- Works with standard Steel and Alloy Wheels
- Max Wheel weight - 70kg
- Max Wheel diameter - 44"
- Rim diameters from 8" to 30"
- Rim Width 3" to 20"
- Automatic 3D Sensor arm for input of Rim Data
- 3x Programs: Conventional, Optimization and Split weight Balancing
- Self calibration and Diagnosis. One gram Accuracy.
- With Foot Brake, Wheel guard, Rim width caliper, Wheel weight pliers and Centering cone flange set with quick release wing-nut
- 220/250v single phase power requirement



KWB-1200: Computerised Wheel Balancer for Trucks and Busses

- Works with standard Steel and Alloy Wheels
- Max Wheel weight - 150kg
- Rim diameters from 13" to 24"
- Rim Width 1.5" to 20"
- Manual input of Rim Data
- 3x Programs: Conventional, Optimization and Split weight Balancing
- Self calibration and Diagnosis. Fifty gram Accuracy.
- With Wheel guard, Rim width caliper, Wheel weight pliers, Centering cone flange set with quick release wing-nut
- Heavy Duty adaptor set for Truck & Bus
- With Pneumatic Wheel Lift and Foot Brake
- 380v three phase power and 10 bars air pressure requirement



Tyre Changers

Launch: TWC-481 NMB: Tyre Changer for Passenger cars and LDV's with Side Swing Tower

- Works with standard Steel and Alloy Mags
- Max Wheel diameter 1067mm
- Max Wheel width 360mm
- Rim diameters from 10" to 22"
- Rim Width up to 14"
- 4 jaw chuck system with mag protectors
- Tyre inflator, Gauge and Tyre lever
- 380v three phase power and 10 bars air pressure requirement



TWC-502 NIC / RMB: Tyre Changers for Passenger cars and LDV's with Pneumatic Rear Tilt Tower

- Works with standard Steel and Alloy Mags
- Max Wheel diameter 1000mm
- Max Wheel width 420mm
- Rim diameters from 10" to 23"
- Rim Width up to 16"
- 4 jaw chuck system with mag protectors
- Tyre inflator, Gauge and Tyre lever
- Complete with Low Profile / Run Flat tyre mounting and demounting assistor (RMB model only)
- 380v three phase power and 10 bars air pressure requirement



TWC-682 RMB: Tyre Changer for Passenger cars and LDV's with Pneumatic Rear Tilt Tower

- Works with standard Steel and Alloy Mags
- Max Wheel diameter 1067mm
- Max Wheel width 420mm
- Rim diameters from 11" to 26"
- Rim Width up to 16"
- 4 jaw chuck system with mag protectors
- Tyre inflator, Gauge and Tyre lever
- Bead Blast Inflator with integral air tank
- Complete with Low Profile / Run Flat tyre mounting and demounting assistor
- 380v three phase power and 10 bars air pressure requirement



TWC-801: Heavy Duty Tyre Changer for Trucks, Tractors, Busses

- Electro-Hydraulic Operation
- Max Wheel diameter 1500mm
- Max Wheel width 780mm
- Rim diameters from 14" to 26"
- One Man operation with movable control panel
- Adjustable Clamp tension
- Two speed motor with 380v three phase power requirement



TWC-802: Heavy Duty Tyre Changer for Trucks, Tractors, Busses

- Electro-Hydraulic Operation
- Max Wheel diameter 2300mm
- Max Wheel width 1060mm
- Rim diameters from 14" to 56"
- One Man operation with movable control panel
- Adjustable Clamp tension
- Two speed motor with 380v three phase power requirement



OCE: Electronic Brake Fluid Tester

This has to be the cheapest "money maker" you've ever owned. One hand - one touch operation. Ideal tool for those fast pre-service quotations. We all know what water does to modern ABS units and brake systems.

Main Features:

- Pocket sized, pen like, unit that will show brake fluid (oil) water contamination in seconds.
- Simply press the button on top and immerse in brake fluid reservoir.
- 5 Color LED's for Fluid OK, Change fluid Soon and Bad/Dangerous oil.
- AAA battery operated, electronic circuit ensures accuracy and fast response.
- Auto Off function in 10 sec.
- Build in a protective, liquid tight, housing.



Show your customers why you need to renew their brake fluid sooner than they think.

Intelligent Battery Chargers



Crypton: Traction Chargers Range



The MPL range of battery chargers has been designed to meet the demands of today's batteries. With its micro processor controlled circuits they deliver exactly the right amount of charge dependant on the condition and state of charge of the battery.

Built to the highest standards, the MPL is built into a robust steel case which is designed to meet the demands of the professional workshop, the LED display keeps the operator informed at all times. With its Patented Sulphation Recovery Program the MPL is approved & used by major battery and vehicle manufacturers worldwide to significantly

reduce vehicle downtime and warranty costs.

Available in 12v, 24v, 36v & 42v versions, with up to 20Amp constant charge rates, the MPL can be factory programmed to meet the specific needs of the customer and the specific charging characteristics of AGM, Conventional, SLA, Gel, Leisure, Traction, Semi Traction and Calcium batteries.

Constant current bulk charge and 3 stage intelligent charging provides the fastest possible way to recharge the battery without overcharging it.

Many applications include: automotive, telecoms, standby generators, street sweepers, marine, aviation and many other industries where reliably charged batteries are needed.

The high specification of the MPL includes, low voltage sensing to charge deeply discharged batteries, reverse polarity protection, short circuit shutdown no sparks even if the output leads are shorted with the charger connected, soft start current control to prevent damage to sulphated or deeply discharged batteries at the beginning of the charging process. Three stage charging microprocessor control with proportional timing allowing optimal charging.

Override timer flashes if full charge could not be achieved in 18 hours, float mode allows the charger to be left connected indefinitely topping up the battery as it naturally discharges. Have you batteries always charged and ready for work. Approved by:



OCE: 12/24 Intelligent Chargers and Reconditioners

This Intelligent Battery Reconditioner & Charger incorporates reconditioning processes to recover deeply discharged batteries especially found in deep cycle batteries, by using latest Inverter technology (high frequency switching circuitry which converts incoming AC input into 12v/24v DC outputs). Its built-in microprocessor chip constantly senses the condition of the battery during the whole charging process, and providing the accurate Amperage and Voltage to the battery basing on the 7 designated charging stages requirements. If it finds that the battery has failed after it has conducted the internal battery test, it will immediately start the reconditioning process where it introduces low constant current at higher voltage to charge the battery for 4 hours before it begins another test.

With its micro processor controlled circuits they deliver exactly the right amount of charge dependant on the condition and state of charge of the battery. Never again worry about overcharging a battery.

Main Features:

- Microprocessor controlled charging that always monitors the battery condition during operation to determine the correct action that it should take.
- Accurate in determining the amount of current and voltage during charging which never overcharges a battery.
- Automatic 7 stage switching mode: Desulphation, Soft-start, Bulk, Absorption, Battery Test, Recondition and Float makes charging much easier, quicker and safer on all types of batteries with no worries of disconnecting the battery after full charge. Constant current bulk charge and 7 stage intelligent charging provides the fastest possible way to recharge the battery without overcharging it.



This Intelligent Charger can be left connected infinitely without harming the battery which helps to maintain the battery charge levels - incorporating Float Charge processes.

- Its Desulphation process helps to break down sulphate that occurs in battery which has been left flat for extended periods of time or when lead sulphate hardens and clog up the battery cells. This helps to restore lightly sulphated batteries back to its best state.
- Incorporated Reverse Polarity and Output Short Circuit protection, it does not create any sparks during connection or disconnection from the battery.
- Highly efficient: Produces less heat during charging due to less energy loss.
- Light in weight and compact in size compared with traditional chargers.
- Temperature controlled internal cooling fan, Over-voltage protection, Faulty Battery protection, Audible Alarms
- Easy-View Charging process indication by flashing Color LEDs.
- Low Priced comparing to alternative units even for DIY/private applications

Available in 12v versions with different amperage.

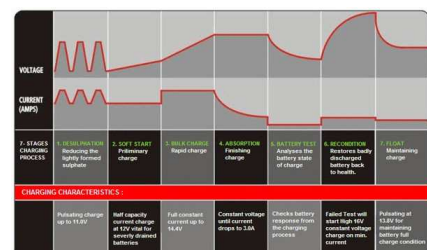
12V / 5A for 38-100Ah batteries

12V / 10A for 70-200Ah batteries

12V / 15A for 100-300Ah batteries

12V / 20A for 134-400Ah batteries

Also available in: 24V / 10A and 24V / 20A versions



Intelligent Battery Testers

This 12 Volt Intelligent Battery Analyzer uses a unique electrical measurement called 'conductivity method' that determines the ability of a battery to transmit current through its internal structure. As such, it gives a direct relationship to battery power. Internal conductive battery components include battery grids, active material and connectors that conduct electric current as well as sulfuric acid electrolyte that conduct ionic current between and within the plates and plate separators. Conductivity is measured by probing the battery with a small AC current ripple that generates a small AC voltage response. And is the relative ratio of the variation in current with the variation in voltage. By using this method to test and analyze the conditions of the 12V battery means the battery can be tested and analyzed whether it is on or off the vehicle. This means you don't need to disconnect the battery from the vehicle.



For quick and convenient way of checking the condition of the vehicle power systems, this Battery System Analyzer is designed to perform the following tasks:

1. Battery Test

Analyses the battery condition using the latest battery testing methods without the need of fully charging it before test. The unit consumes very little current during testing hence the test can be repeated numerous times without worry of further draining the battery and the results are highly accurate.

Extremely safe as it does not create any sparks during clamp on and it takes less than 5 seconds to obtain the analyzed results of the tested battery.

RESULTS	Good
12.40V	314 CCA
Int. R	8.59 mΩ
LIFE:	96%

2. Grounding Test (Earth Lead Test)

Analyses the condition of the engine / body grounding contact (earth lead) to the battery terminal. The results will be displayed on screen after the test.

3. Starter Test

This Test checks the ability of the battery to supply High Current under engine cranking conditions to predict when the battery will fail to crank a vehicle basing on voltage profiles entered. The results will be displayed on screen after the test.

4. Alternator Test

This Test checks the Alternator charging ability during load at 2,000 RPM and without load at 3,000 RPM with results displayed on screen after each test.

The Battery System Analyzer is maintenance free and no internal batteries required. It powers up when connected to the battery terminals during testing. The operation is fast and simple. When hooked up to the battery terminals, the displayed instructions on the screen will lead you through the correct test steps and a warning tone will caution you if something is wrong. The results are consistent and repeatable and can be performed numerous times without heating up the unit. After the test, the results will be stored in its memory and can be reviewed again later and printed if connected to a printer.

Supplied with full Operating Manual and a lot of Battery Testing information on CDROM.

* Printer, Printer Power supply and inter-connection cable are optional.

OCE - Educational Automotive Courses

<u>Crypton Basic Courses</u>	Attendant requirements:
<u>Mechanical Basics</u>	literacy
<u>Electrical and Automotive Electrical Basics</u>	literacy
<u>Electronic Ignition Basics:</u> Theory of Operation, Basic Types, Basic Troubleshooting	Electrical & Mechanical Background
<u>Fuel Injection Basics:</u> Theory of Operation, Basic Types, Basic Troubleshooting	Electrical & Mechanical Background
<u>Oscilloscope Basics:</u> Theory of Operation, Basic Types, Basic Waveforms Understanding	Electrical & Mechanical Background
<u>Tune Up Equipment Basics:</u> Theory of Operation, Basic Types and usage	Electrical & Mechanical Background
<u>Code Readers:</u> Theory of Operation, Basic Types, Basic Troubleshooting	Electrical & Mechanical Background
<u>Basic Emissions:</u> Theory of Operation, Basic Types, Basic Troubleshooting, Gas Analysers + Smoke Meters Basics	Electrical & Mechanical Background

<u>Crypton Advanced Courses</u>	Attendant requirements:
<u>Advanced Electrical Circuits:</u>	Electrical & Mechanical Background + Basic Electrical Course
<u>Advanced Ignition:</u>	Electrical & Mechanical Background + Basic Ignition Course
<u>Advanced Fuel Injection:</u>	Electrical & Mechanical Background + Basic Fuel Injection Course
<u>Advanced Ignition Oscilloscope:</u>	Electrical & Mechanical Background + Basic Ignition Oscilloscope Course
<u>Advanced Automotive Emissions:</u>	Electrical & Mechanical Background + Basic Emissions Course
<u>Advanced Code Readers and Scanners:</u>	Electrical & Mechanical Background + Basic Code Readers Course

Note: Please phone us for detailed courses description and pricing.

About Our Company

Crypton Diagnostic Equipment is a company that sales, services and repairs automotive diagnostic equipment as used in the Automotive Dealerships, Private Workshops and Garages.

History:

Having experienced first hand the technical incompetence of most salesman of workshop diagnostic equipment, we've decided that a company with in-debt technical knowledge was needed in order to deliver experienced know-how and support to the automotive technicians in need of workshop equipment. Hence, in 2005, Crypton Diagnostic Equipment CC was born. Our first major equipment supplier was (not surprisingly) Crypton Technologies UK- a company with 100 years business record.

Since then, our company managed to acquire the trust and support of some of the biggest automotive diagnostic equipment manufacturers around the world.

We are the official distributors for Southern Africa of Omitec®-UK, Crypton®-UK and Autodiagnos®-Sweden, and appointed distributors of Launch-SA and Radical™ equipment.

Some equipment is also made by us using only high-end quality parts and modules, most of which - also imported. We also write the software for our own equipment in-house.

We bring to your doorstep the equipment and the necessary knowledge required to make the most of it. After all, no one wants to employ a “worker” who just sits there doing nothing. We know all too well that automotive equipment has to be “worked” in order to make money from its usage and ownership.

We, constantly strive to bring you the best value you can get for your hard earned money. After all, we are automotive technicians, just as you probably are, and we know what it takes to stay in the automotive repair business. That is why; with us you get the best deals and back-up in South Africa.

We will never provide you with equipment that has not been tested by us and doesn't have proven credibility, functionality or support. We stay firmly behind all the products we supply to you.

With this in mind, we come to you and do our best to offer the most suitable and profit making equipment that will satisfy your specific needs without breaking the bank (or your heart). We also bring you the knowledge how to operate the equipment efficiently, so it can start making profit straight away.

Whatever you do, please make sure you visit our Web Site: <http://www.crypton.co.za> There you can explore the equipment in detail at your own leisure and will find almost everything that we have to offer. If you are in need of technical advice or equipment not listed there – give us a call.

The CDE Team

[illegible]

While all effort was made to ensure the information herein is correct and error free, we cannot be held responsible for informational mistakes, typos or printing errors, nor shall be held responsible for any loss of any nature whatsoever arising from the use or misuse of the information in this catalogue. All trademarks, registered brands and company names used herein, are, and remind properties of their respective owners.

32