

CRYPTON

In tune with the future

CMT3000



CMT3000 gas analyser

OPERATING INSTRUCTIONS

TES1345/A
July 2001

IMPORTANT

Every reasonable effort has been made to ensure that information within these Operating Instructions is correct at the time of release, but Crypton cannot accept-responsibility for any errors that may occur.

The information in these Operating Instructions is subject to change without notice, and does not represent a commitment on the part of Crypton.

Service & Warranty

The reliability of this equipment is fully supported by our service agent.
Please refer to the page at the end of this manual for full details.

Note:

Your attention is drawn to our Terms & Conditions of Sale, particularly paragraph 2. If a service engineer is called out. under service warranty where, upon inspection and test the equipment is found to be in full working order and no fault found, the user is liable to be charged the cost incurred for this call out. Before calling out an engineer, ensure your equipment is faulty by checking its operation, particularly mains supply and fault codes/self test if applicable.

WARNING:

Do not attempt to operate this equipment unless you have read and understood these instructions.

Software Licence

Further to our general Terms & Conditions of Sale, the software described in these Operating Instructions is furnished under the following Software Licence Agreement:

1. Licence: You may use the program on the machine provided. You may not copy, duplicate or transmit the program in any form, in whole or in part, without the express prior written permission of Crypton.
2. Term: The licence is effective until terminated. You may terminate the licence by destroying the program together with all copies, or returning the program to Crypton.
3. Crypton does not warrant that the program will meet your requirements or that its operation will be uninterrupted or error free.
4. In no event will Crypton be liable to you for any incidental or consequential damages, including lost profits, business operation and the like, arising out of the use or inability to use this program

You acknowledge that you have read this Agreement, understand it, and agree to be bound by its provisions.

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Safety Precautions

1. When testing a vehicle, never short plug leads to the dipstick, rocker cover, battery or other components, which may not be directly earthed. This can cause an explosion of oil fumes or hydrogen.
2. When the diagnosis is performed with the engine running, operators should exercise due caution with regard to the fan and associated belts, shock from ignition components and burns from the exhaust system. Care should also be taken to keep test leads clear of rotating components, i.e. the fan, pulleys, belts, etc.
3. Where the test area is confined, provision should be made to extract the exhaust gases.
4. Ensure the vehicle parking brake is operated and that gear selection is set to Neutral or Park before commencing any testing.
5. The internal circuits and components should not be tampered with. There are no user-serviceable parts inside.
6. To ensure reliable results are obtained, diagnostic leads should be routed away from high-tension components of the ignition system, i.e. coil, plug leads, distributor cap, etc.
7. Operators should not allow themselves to come into contact with water or other similar conductors when using the equipment.
8. The equipment is not weather proof and should not be used outside in the rain or snow.
9. The earth lead of the mains supply cable MUST ALWAYS be connected to a good earth point.
10. Equipment should be sited in an area designated and clearly marked:

FOR USE BY AUTHORISED PERSONNEL ONLY

1) Reception

Unpack the equipment and examine for any damage.

Check the contents against the despatch schedule enclosed for any loss or discrepancies.

Report any breakage, loss or discrepancy to your supplier immediately.

2) Important Notes

Due to the flexible, modular nature of the CMT product, it is most important that the particular combination of modules, options and accessories is considered, and the following actions taken before using the equipment. Failure to do so may cause the user to suspect an equipment fault and to call in a Service representative. If the problem reported is due to the user having failed to follow these instructions, then a charge will be made for the visit.

Configuration

This procedure is used to inform each Application Programme what devices are fitted so that it does not look for measurements from devices not fitted and, as a result, indicate a fault when no data is seen. The CONFIGURATION instructions can be found in the UTILITIES section of each Application Programme Operating Manual

Supply

This equipment leaves the factory connected for 240V nominal single phase 50 Hz a.c mains supply. Where the mains voltage differs from this, it is essential that the equipment is ordered for the specific voltage in your region. The equipment should be stored and kept in a dry condition.

3) General Description

The Crypton CMT 3000 (CUDOS Modular Trolley) is the latest development in the award winning 'CUDOS' garage equipment range. As the name implies it is a highly modular product that can be any combination of MOT Test Trolley, Systems Tester, Emissions Analyser (Smoke and Gas), Engine Analyser and it can also be used as a Technician Terminal for the display of advanced CD-ROM based Vehicle Information, Parts Catalogues and Workshop Control Functions. A range of external Measurement Modules and Software Application Programmes enable the powerful computer to be personalised for particular applications. The modules are connected to the Host computer via high-speed communications links. The computer is a specially selected PC compatible unit built to meet the demands of the workshop environment, without compromising the ability to accept the full range of PC compatible accessories.

4) Installation and Set-up

Mains Power

The CMT leaves the factory connected for the voltage stated at the time of ordering (See supply section above). There are THREE units in the system which can be voltage sensitive and these are as follows:

- (a) The main unit (host PC)
- (b) The VDU
- (c) The printer

To confirm voltage supplies are correct proceed as follows:

Remove the rear panel of the cubical and check the back of the host computer to ensure that the voltage is correct. If not, DO NOT SWITCH ON. The host computer unit (a) may have a switch at the rear for mains voltage selection. Check that the switch is set in the correct RANGE for your mains supply, i.e. 100-120V or 200-240V. If not, DO NOT SWITCH ON.

The VDU (b) is not adjustable and must be correct for the mains supply. Check at the back of the VDU that the voltage is correct for your mains supply. If not, DO NOT SWITCH ON. Where the voltage plate shows 100/240, the VDU is suitable for connection to any single-phase supply inside these limits.

The printer (c) is not adjustable and must be correct for the mains supply. Check the on the printer rating label that the voltage is CORRECT. If not DO NOT SWITCH ON.



FIG. 1

When connecting the equipment to the mains supply, use the mains cable provided. In the U.K. this is fitted with a 13-amp wall plug with a 5-amp mains fuse. NEVER use a mains

fuse exceeding 5 amps. Where the standard three-pin mains plug is unsuitable for the electrical outlet, a suitable plug should be fitted by a qualified electrician using the following colour code:

BROWN to LINE BLUE to NEUTRAL GREEN/YELLOW to EARTH

Note: This equipment must be connected to a suitably earthed mains outlet – if in doubt consult your qualified electrician.

To provide the power for the modular items of the CMT, please refer to the inter-connection diagram.

Where additional optional modules (such as an emissions analyser) are fitted, they must also be set for the correct voltage. Please refer to the relevant operating instructions.

The VDU is packed separately and should be removed carefully from its packing. Save the packing box for possible future re-use. If the unit has to be transported by vehicle at any time, the VDU should be removed, repacked and refitted afterwards.

Remove the VDU retention plate from the top of the CMT3000 trolley. Place the VDU foot into the depression exposed in the cabinet and replace the VDU retainer ensuring the front of the retainer is located into the cabinet top. Slide the VDU forward until the gimble is fully against the cutout in the retainer, refit the two screws to secure the back of the retainer.

The VDU signal lead should be connected to the socket at the rear of the host computer and the cable secured to the existing cables with the releasable tie wraps provided (ensure sufficient cable is left free to allow the VDU to rotate). Note the shape of the 'D' connector and always ensure that the tapered sides of the plug and socket are fitted together. Reversal of the connector could result in an expensive repair!

The VDU mains lead is fitted to the cabinet and should be plugged into the rear of the VDU.

The CMT is switched ON by a rocker switch situated on the right hand side (when viewed from front) on the rear of the main cubicle. The switch incorporates an automatic thermal trip to protect the electrical components.

If the switch trips out persistently, there is an equipment fault and a service Engineer should be called. For Service Centres refer to the end of these Operating instructions.

The VDU has its own mains power ON/OFF switch located on the front. Should the VDU fail to operate after switch on always ensure that the independent POWER Switch is ON. This switch should always be left ON and the Cubical ON/OFF switch on the side used for turning the equipment on and off.

The VDU may also incorporate its own controls for Brightness and Contrast. Use the contrast and brightness controls to achieve a screen which is comfortable to view under the ambient light level in the area of use. Controls for Vertical Hold and position 'Left to Right' may also be fitted but should only be used if required.

The Host Computer has its own mains power ON/OFF switch. This switch should always be left ON and the Cubical ON/OFF switch on the side used for turning the equipment on and off. Each time the power is switched on, a 'self-test' routine will be initiated to check

important areas of the electronics. If a fault is detected, a statement will appear on the screen. This exact statement should be passed on to the service (see back of manual), or Agent if overseas, to enable the Service Engineer to recognise the fault before arriving on site. If during normal usage the equipment appears to function abnormally, switch the mains supply off, wait 10 seconds then turn on again to perform a self-test and thereby determine if there is a circuit malfunction.

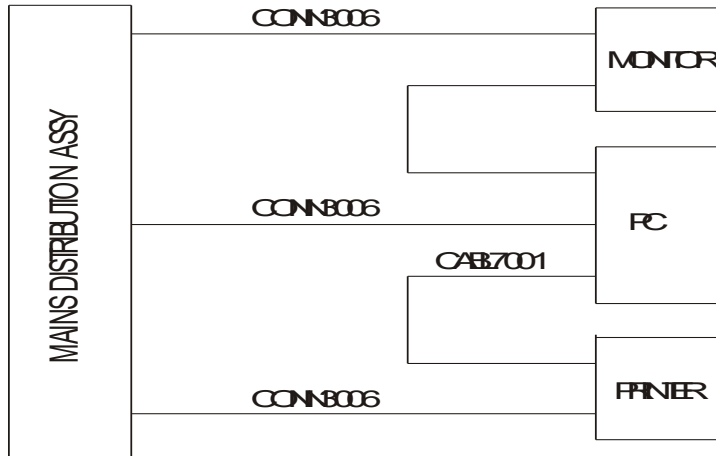


Fig 21

Base trolley mains wiring.

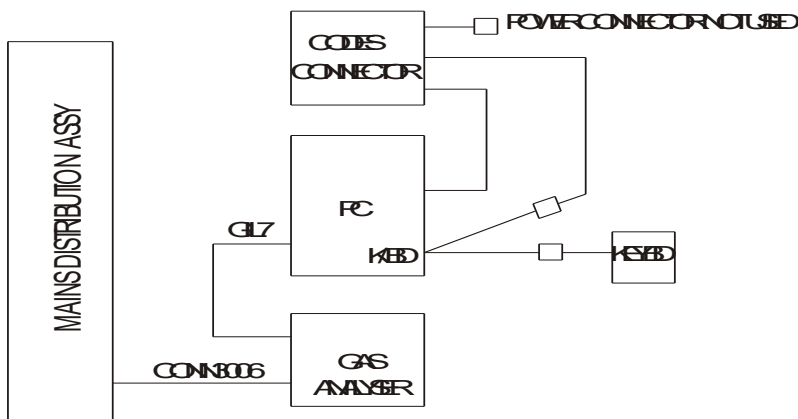


Fig 22

With optional gas analyser.

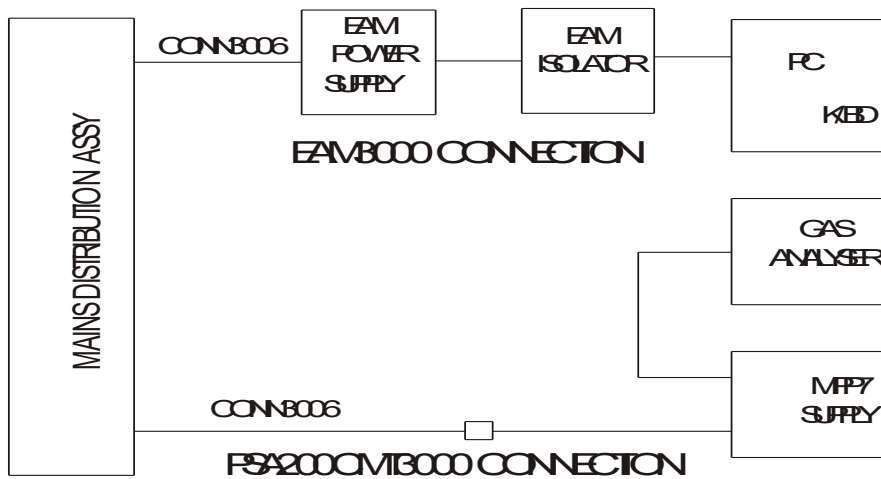


Fig. 23

With optional EAM and smoke.

EAM Option

The EAM option comprises of an Engine analyser module (EAM), isolator interface to the PC, power supply together with a boom and associated fixings. The boom is supplied ready wired for connection to the rear of the host unit. To fit the boom, after removal of protective material, remove the rear panel. Fit the lower boom bearing to the shelf with the bolts supplied. Feed the cable down through the hole at the left side of the console followed by the boom and engage the boom in the lower bearing. Ensure the plastic bush provided is located in the top of the cabinet to create the top boom bearing. Fit the EAM isolator and the power supply to the back panel of the trolley as shown below. Fit the 'D' connector to the socket on the EAM isolator box (see Fig. 3). Note the shape of the 'D' connector and always ensure that the tapered sides of the plug and socket are fitted together. Reversal of the connector could result in an expensive repair. Plug the EAM isolator into the PC and connect the power supply to the EAM isolator. Connect the mains from the EAM isolator to the Trolley power outlet, routing the mains cable up the opposite side of the cabinet to the boom with the cables ties provided.



Fig. 3

NOTE: No mains cables should be routed near to the boom or they could chaff on the boom as it rotates and create a safety hazard. Only low voltage signal cables to the EAM and PC

should be on the boom side of the cabinet and these must be routed clear of the boom and storage cabinet hinges.

Mouse and Mouse Mat

Always ensure that the mouse is used on the MOUSE MAT fitted to the keyboard area of the CMT3000. Ensure the mouse pad area is kept absolutely clean.

Note:

The mouse may only be used to drive an application when a pointer appears on the screen.

Warranty

The mouse must ALWAYS be used on a clean surface. If it is used on a dirty surface the dirt will be picked up by the mouse ball and transferred into the mechanism of the mouse. This will rapidly lead to failure. For this reason the mouse is not covered by our standard warranty and is listed as a 'consumable part'. If you believe that your mouse has failed due to faulty manufacture within one year of purchase please contact Product Support on 01278 436225 to arrange for its return. If, on inspection, faulty manufacture is confirmed a replacement will be despatched.

IMPORTANT:

Service visits for the replacement of a faulty mouse are chargeable.

Printer Installation

To fit a printer to the CMT follow the procedure detailed below:

Ensure that the Host mains power is turned OFF. Unpack the printer and read the relevant sections of the printer manufacturer's operating instructions.

Remove printer access cover, remove transit packing and fit the toner or ink cartridge as detailed in the printer manufacturer's operating instructions. Refit printer access cover.

Open the printer shelf access and place the printer onto the top shelf. Connect the signal and mains leads, which are already fitted to the cubical.

Note the shape of the 'D' connector and always ensure that the tapered sides of the plug and socket are fitted together. Reversal of the connector could result in an expensive repair!

Some applications may now need to be configured to enable the Printer to be used with a Crypton Application Programme, refer to the 'UTILITIES' section in the Application Programme manual.

Loading the Paper

Please refer to the relevant section of the printer manufacturer's operating instructions.

Changing the Printer Toner or Ink Cartridges

Please refer to the relevant section of the printer manufacturer's operating instructions.

Printer Operation

The printer can be operated on command from the keyboard, the Infrared keyboard (if fitted) or click on the print icon in the application programme.

Normally, printed text will comprise test results plus Header and Footer personalised details.

In some application programs a personalised header may be typed in using the QWERTY Keyboard. Some Application Programmes also allow, Customer details, such as name, vehicle registration, mileage, etc., to be typed in.

Emission Analyser Option

The emission analyser must be secured in place to prevent it being pulled out accidentally if the sample probe is left in a vehicle after testing, and to ensure correct earthing. Remove the hexagon headed screws from all the feet of the emission analyser, remove the feet (store if required in the future) and refit two of the screws to the two front holes of the emission analyser, through the holes in the base of the trolley shelf.

The Emission Analyser which may be fitted into CMT 3000 consists of a mains lead, and a MIL 1. The mains lead should be fitted to the connector at the rear of the emission analyser and the other end to the CMT mains outlet. The GIL 7 plugs directly into the back of the 290 AU and the computer.

NOTE:

Ensure that the emission analyser mains switch is left in the ON position, otherwise gas analyser communication errors will be displayed on VDU. The Application Software may now have to be configured to include an Emission Analyser and this is done by selecting UTILITIES and CONFIGURATION (see UTILITIES section in the application manual). Once it has warmed up and calibrated, the Emission Analyser is controlled automatically by the Application Software. Status messages coming from the emission analyser, such as when re-calibrating, or when a filter is blocked, are passed to the Host and displayed on the VDU.

See the relevant application software operating instructions for further information.

For general information on the use, maintenance and calibration of the Emission Analyser refer to the Operating Manuals supplied with the analyser.

5) Starting Applications

The Windows operating system

The CMT3000 has the Windows operating system which will allow several applications to run simultaneously, however there is additional Crypton CMS3 software to ensure applications do not conflict with each other.

Applications are launched by clicking on the ICON on the Windows 'desktop'. If an application is chosen that will conflict with an application which is already running then an error message is displayed which explains the conflict and the application is not started. The conflict will usually be that an interface module, such as the Gas Analyser is already in use by another application. It will therefore be necessary to close this application before

launching the new one. This error message may also appear if the selected application is already running, see the section below on switching between applications.

Note:

On power up always allow windows to load fully (desktop displayed with no 'hour glass' icon) before launching any application.

Always exit all application programs you are running and shut down Windows before switching off the computer. This will ensure that all Windows files are correctly closed before powering down.

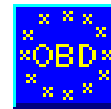
Always Shut down windows using the Shut down option from the Start menu.

Click on bottom left of screen or use WINDOWS KEY on keyboard followed by 'Shut down the computer?' on the 'Radio Button' box and then 'yes'.

Alternatively, press the WINDOWS KEY on the keyboard followed by 'U' and then use the up/down arrows to select 'Shut down the computer?' and then press ENTER.

6) Applications

CODEx



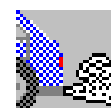
This is the application program for the CODES diagnostic program; this requires the EOBD1 and DMM1 interface to be connected. See the Getting Started with CODES operating instructions for further details.

WGTS2



This is the MOT gas test application and requires a calibrated OIML1 gas analyser option to be fitted. See the WGTS2 operating instructions for further details.

WUKS1



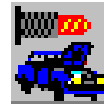
This is the MOT smoke test and requires a calibrated gas analyser option and Smoke meter option to be fitted. See the WUKS1 operating instructions for further details.

IETD3



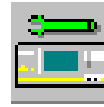
This is the Engine test diagnostic program and requires the EAM option to be fitted. See the IETD3 operating instructions for further details.

IDTD1



This is the Diesel Diagnostic program and requires the EAM option, together with Diesel option, to be fitted. See the IDTD1 operating instructions for further details.

IGAS 1



This is the Emission analyser set up program. It allows the host computer to act as a remote front panel for the Crypton emission analysers. This can be used to view readings, print results and access the emission analyser set-up menus.

IGAS 1



This program allows the host computer to act as a remote front panel for the Crypton emission analysers for countries that have no automated legislative emission procedure. This can be used to view readings, print results and access the emission analyser set-up menus.

IMPORTANT

If this option is used with a 'black box' emission analyse (i.e. no display), under no circumstances should the 'Host engine analyser' setting be altered, this may render the analyser unusable. If this occurs it will require a CHARGEABLE service visit from a NAMAS quality engineer to correct the problem.

7) Installing Applications

Crypton Software Updates

Ensure the application disk is in the relevant drive; select Start Menu, Settings, Control Panel. Select the Add/Remove Programs Icon in Control panel followed by the Install button and then follow the on screen instructions – click finish to run INSTALL.EXE.

Data Disk Updates

Ensure the application disk is in the relevant drive, select Start Menu, Settings, Programs, Crypton applications and then select the relevant install application from the menu.

3rd Party Software

Follow the instructions supplied with the software

Switching Between applications

Once one application has been started and is running it is possible to switch back to the 'Desktop' by pressing the WINDOWS KEY. Another application may now be started (assuming that it does not require resources already in use by an application already running).

The applications currently running are shown in the toolbar at the base of the 'Desktop'.

To switch between applications press the WINDOWS KEY and then Click on the application in the toolbar.

Software Problems

If software problems are suspected contact product support on 01278-436225 for help

Computer BIOS Settings

Under normal circumstances no adjustments or action should be necessary to the BIOS set-up. If you wish to make changes to the BIOS set-up for any reason contact Product Support, for further information, on 01278-436225.

**INCORRECT SETTINGS MAY CAUSE THE MACHINE TO FAIL AND CAUSE
DAMAGE TO DATA AND INSTALLED PROGRAMS**

TERMS AND CONDITIONS OF SALE

GUARANTEE

We guarantee our products as free from defects due to faulty material or bad workmanship for a period of 12 calendar months for all products. The period of the guarantee commences from the date of delivery to the Purchaser, either by us or by our distributor. Our liability is limited to the replacement of parts found defective and making good defects found within the prescribed period arising solely from faulty material or bad workmanship, in the products of our own manufacture, properly used solely for the purposes for which they were intended, and not due to wear and tear, misuse, neglect or improper adjustment.

Any product alleged to be defective shall be forwarded to us, carriage paid, immediately the alleged defect is discovered, for identification, examination and report or if not capable of being so forwarded, notice in writing shall be sent to us immediately. The Purchaser will be charged for engineer's time and travelling expenses if a warranty repair is carried out on site, other than for fixed items of equipment such as brake testers. If we accept liability the repaired or new product, in replacement, will be delivered free from our works. We give no guarantee in respect of any proprietary electrical or other equipment made by other manufacturers, and supplied with our products, but will so far as possible, transfer the benefit of such guarantee, if any, given by such other manufacturers. We are in no circumstances liable for any consequential or other loss or damage arising through any defect in our product. In lieu of any express or implied statutory or other warranties, guarantees, conditions or liabilities (whether as to fitness, quality, standard of workmanship or otherwise) which are hereby excluded, the following provisions shall apply:

- (a) The Purchaser shall not be entitled to rescind the contract or to claim damages on the grounds of any statement whatsoever as to the suitability of the goods for any particular purpose, and the Purchaser assumes responsibility for the capacity and performance of the goods being sufficient and suitable for his purpose, and for his premises being suited to the installation and operation of the plant and machinery. The Purchaser agrees and confirms that apart from the express terms of the contract, no statement or representation has been made by the Company relating to the goods to be supplied under the contract or, if any has been made, he has not relied on it.
 - (b) The Company's liability in respect of any defect whether quality, suitability or performance or otherwise in any goods supplied or for any loss, injury or consequential damage attributable thereto is limited to the terms of this guarantee and the Purchaser hereby acknowledges:
 - (i) That if purchased the goods in a competitive market and that the bargaining strength of the Company was in no way a relevant factor in the purchase of the goods from the Company.
 - (ii) That the Purchaser knows the extent of the meaning of this Condition and the limitations thereby imposed by it under Sections 13, 14 and 15 of the Sale of Goods Act 1979.
- Our guarantee does not apply should equipment be operated or stored under adverse conditions e.g. outside installations or in areas used for steam cleaning or pressure washing, etc., unless otherwise specified in the relevant equipment manual.

The above guarantee is given in lieu of all other terms, conditions, warranties, guarantees, undertakings and representations, express or implied, statutory or otherwise, which, except to the extent that this provision is held to be void or unenforceable under or by virtue of any provision contained in the Sale of Goods Act 1979 or the Unfair Contract Terms Act 1977 or any statutory modification or re-enactment thereof for the time being in force, are hereby expressly excluded.

DESIGN We reserve the right to alter the design or construction of equipment at any time without notice.

LAW OF CONTRACT

All contracts for the sale of the Company's products shall be deemed to be made and executed in England, and the same shall be construed, performed and enforced in accordance with English Law and the parties submit to the jurisdiction of the English Courts. The application of the Uniform Laws of International Sales shall be excluded. This condition shall not prevent the Company instituting proceedings in the Courts of any other country to enforce such contract against the customer.

DELIVERY

Delivery dates, given in good faith, are approximate and reflect conditions prevailing at that time.

No liability can be accepted arising from delays in delivery, irrespective of the cause of any such delay.

CANCELLATION AND VARIATION

Orders once accepted by us are binding and cannot be cancelled or varied unless we at our discretion accept the cancellation or variation. We will make every effort to meet our Purchasers in this respect but

- (a) we cannot accept cancellation for non-standard products; and
- (b) we cannot accept cancellation changes in delivery dates or other variations notified to us later than the end of the penultimate month prior to the month fixed for delivery; and in such circumstances and any other cancellations or variations to which we have not agreed we shall enforce our contractual rights and/or impose an appropriate charge.

TERMS

Quotations given are open for acceptance within 14 days and are subject to revision should the state of the raw material market or other circumstances render this action necessary.

Orders, whether received as a result of a quotation or not, can only be accepted for execution at prices ruling at date of despatch.

Payment - except where otherwise stated in our invoice, or agreed in writing, our terms are nett cash and payment is due on presentation of invoice. Where we have agreed to open an account with the Purchaser

invoices are due for payment by the 25th of the month following month of invoice and interest will be charged on overdue accounts at the prevailing County Court rate.

VALUE ADDED TAX

VAT is not included in our prices and will be shown separately on all invoices at the rate ruling at date of despatch and subject to current legislation.

CARRIAGE

Carriage is paid to destinations on the mainland of England, Scotland and Wales on all orders of £500 Nett or over, except accessories, spare parts and repairs. Where carriage is chargeable its cost is added to the invoice value at current rates.

PACKING AND UNLOADING

Damages or shortages must be signed for as such and claim made on the carriers, in writing, within three days of delivery. Where Company vehicles are used the driver must be notified at the time of unloading and the consignment note marked to indicate the damage or shortage. The practice of signing for the goods "not examined" does not absolve the Purchaser from this condition. The consignee is responsible for unloading. Packing cases and slings, when used are charged extra but credited in full on return, carriage paid and in good condition.

LOSS IN TRANSIT

Public Transport Companies and the Post Office only accept claims for loss in transit made within a limited period. If goods are not received within 14 days of the date of our invoice, we must be advised immediately otherwise neither the carriers nor ourselves will be liable for any loss involved.

PASSING OF RISK

The risk in the goods shall remain in us until delivery to the Purchaser or his agent. In the absence of written notice from the Purchaser to us and the carriers, as prescribed above, the goods shall be deemed to have been delivered complete and in satisfactory condition.

PASSING OF PROPERTY

Until such time as all sums due to the Company from the Purchaser whether in respect of goods delivered by the Company to the Purchaser or otherwise have been paid the provisions of this Condition shall have effect:

- (a) All goods delivered by the Company to the Purchaser will remain the property of the Company to the intent that the whole legal and beneficial interest therein shall remain that of the Company.
- (b) If the Purchaser becomes or threatens to become insolvent or being a body corporate has a Receiver appointed or passes a resolution for winding up or if a Court makes an Order to that effect or being an individual or partnership makes any composition or arrangements with his or their creditors or has a receiving order made against him or them or if the Purchaser shall be in breach of these Conditions, then the Company shall be at liberty to forthwith remove and repossess all goods which remain the property of the Company in accordance with this Condition and enter upon any property to do so or to inspect goods to identify the Company's goods.
- (c) The Purchaser shall only be at liberty to resell the goods purchased from the Company prior to the passing of title on the understanding that if it does not resell the goods then it will hold on trust for the Company so much of the proceeds of sale received by it under contracts which include any of the goods hereby sold either in their original or altered state as are necessary to discharge payment in full to the Company.
- (d) No provision of this Condition shall be deemed to cause a Mortgage or Charge of the Property or undertaking of the Purchaser or any part thereof to have been created by the Purchaser in favour of the Company.

SEPARABILITY

Any failure by us in respect of one delivery shall not entitle the Purchaser to treat the contract as repudiated, each delivery being, for such purpose, deemed a separate contract.

INSTALLATION

The Purchaser is responsible for the preparation of the site, where such a site is necessary, together with the provision of any supplies and services that may be required. The specifications and the responsibilities of agents, distributors and end-users are clearly set forth in separate leaflets, available on the various products concerned.

If failure to fulfil this responsibility extends the time taken to commission equipment or results in extra visits by engineers the Purchaser is fully liable for the extra cost. If installation of equipment is unduly delayed, the Company reserves the right to pass on cost inflation as a supplementary charge.

REFUSAL

Goods consigned to the order of end-users and/or distributors render them liable for all carriage and handling charges incurred, if delivery of the goods is refused on arrival at destination.

RETURNED EQUIPMENT

In exceptional conditions, subject to agreement in writing, and the equipment being of current standard design, new equipment in good condition will be accepted, carriage paid to factory, subject to a handling charge. Any costs incurred in making the equipment as new will be charged in addition to the handling charge.

SPARES AND AFTER SALES SERVICE

Spare parts and service are available through our service agent. Initial contact should be made via the Crypton Product Support Helpline on 01278 436225. All spare parts purchases are subject to minimum order values.

RIGHT TO TERMINATE

If the Purchaser breaks any of these conditions or becomes insolvent or subject to any law relating to bankrupts or being a corporation goes into liquidation, whether voluntary or compulsory or has a receiver appointed over its assets, we may suspend deliveries or, by notice to the Purchaser, terminate the contract and such termination shall be without prejudice to any other rights or remedies to which we may be entitled.

All quotations and tenders are given and contracts are made by the Company subject to the above terms and conditions and unless previously agreed in writing by an authorised officer of the Company:

- (i) No verbal, written or other addition hereto or variation hereof including (without prejudice to the generality of the foregoing) any representation or warranty relating to the goods or services to be provided by the Company shall be effective; and
- (ii) These terms and conditions supersede any other terms and conditions appearing elsewhere and shall prevail over and exclude any course of dealing established between the Company and the Purchaser and any other terms and conditions stipulated or incorporated or referred to by the Purchaser or his agent or any third party; and
- (iii) It shall be a pre-condition of the Company giving any quotation or tender or entering into any agreement for the supply of any goods or services that such agreement be made subject to these terms and conditions.

CRYPTON

Crypton Technology Business Park, Bristol Road, Bridgwater, Somerset TA6 4BX
Tel: +44 (0) 1278 436200 Fax: +44 (0) 1278 450567 Email: sales@CryptonTechnology.com
Website: www.cryptontechnology.com

AFTER SALES SERVICE

Apart from the routine maintenance and adjustments stipulated in this manual the equipment must not be tampered with in any way. All further servicing must be carried out

only by an engineer from an Authorised Agent. Failure to observe these conditions will invalidate the Guarantee.

On-Site Service / Overhaul / Spare Parts

If you require a Service Engineer to attend ON SITE, either due to an equipment fault, or for machine calibration, or if the equipment covered by this manual requires to be sent back for factory overhaul, or if you need spare parts, please contact our Product Support Helpline at the following number.

Tel: 01278 436225 Fax: 01278 436238

Overseas

Service abroad is provided by the agent from whom your equipment was purchased.

Fully Comprehensive After-Sales Service

Call Crypton Helpline for details of local service agents. 01278 436225

Technical Information

Crypton provide information and contracts covering:

Car Data, Fault Code Information, Diagnostic Information, Software Support
Contracts, Software Updates & Accessories

Helplines

Crypton run an Equipment Helpline during normal office hours.

Tel: 01278 436225 Fax: 01278 436238

Email: support@CryptonTechnology.com

A fully comprehensive Product Support Contract is also available which provides additional assistance with equipment / technical support. Please contact Product Support on the above Helpline no. for further details.

Notes: