

Operating manual for the Taurus-500 from Vetronic Services LTD



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Introduction to the Taurus-500

The Taurus-500 is a new, hand-held data-logger designed specifically for vets performing on-farm Tuberculosis and Brucellosis testing. With the Taurus-500 data can be entered quickly and easily by following the on-screen prompts. All data is saved on non-volatile RAM meaning that your data is safe in the event of battery failure.

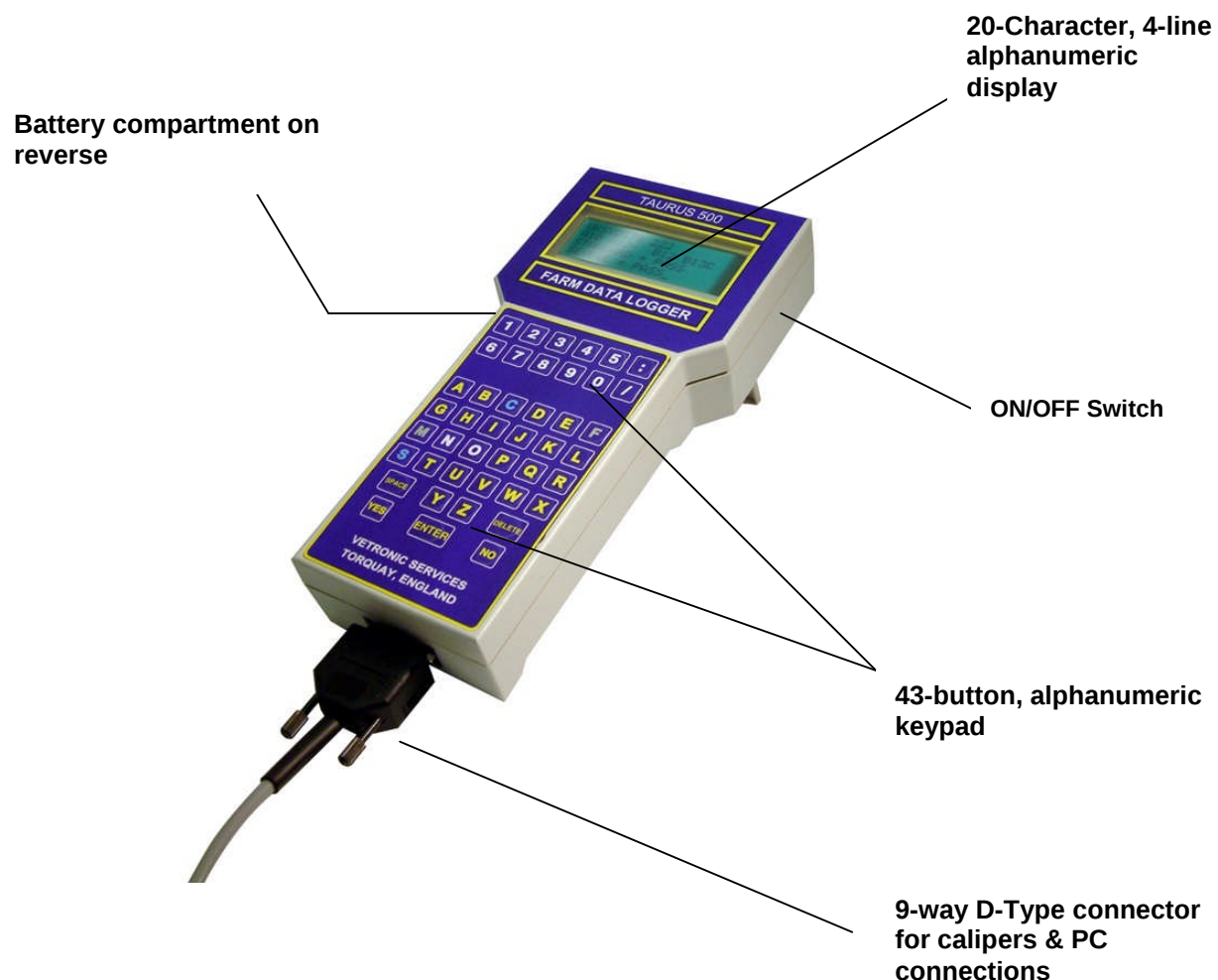
The Taurus-500 has a memory feature that remembers details of the last animal tested and uses this as the default prompt for the next animal. This means that Herd Numbers, Ages, Sex and Breed need only be entered once for a group of cattle when performing a test on similar animals. This can save a lot of time where it matters most - on the farm. For every data entry there is a scan of the current data to check for duplicate ear numbers - a useful cross-check to help pick up data entry errors on the farm, where they can be most easily resolved. Notes can be added to an animal's data for later inclusion on the printed forms. These will be added to the remarks section of the report and are useful for recording Skin TB and ringworm or other skin conditions. When performing a combined Tuberculosis and Brucellosis test all the required information can be entered at the same time. After uploading to the PC the data is sorted onto the relevant forms automatically. The Taurus-500 comes with a set of automatic calipers that will electronically measure the skin thickness in a similar manner to the traditional method. With the electronic calipers the skin thickness is displayed on the screen and is recorded automatically. In addition to this manual method of data entry, cow record information can be downloaded to the Taurus-500 from the Windows TM software supplied.

On day 3 of the TB test, animals are quickly found by an automatic sort of the logged data. The intelligent sort and search system often means that only one or two digits need be entered to find an animal. Alternatively the Taurus-500 can list all of the day 3 untested animals for that farm enabling you to see at a glance which animals remain to be tested and how many. The Taurus-500 is connected to the computer by a standard serial port and the data is uploaded. At this point the report is ready for printing. No more time spent writing out long tests, and if the results need to be repeated you can simply print another copy.

The Taurus-500 has been designed to save you time and money whilst collecting data on the farm. The standard TB52/52A and BS5/5A forms are reproduced on the PC so you can print these out on plain paper and send them off.

Overview

Main working parts



Mode of operation

The Taurus-500 is a battery-powered device using 4 standard or rechargeable AA batteries for its operating power.

When the Taurus-500 is initially turned ON, data can be entered for either a new farm or an existing farm. Entry is via the 43-key keypad and the electronic calipers. Every animal's record is saved to permanent storage, for later retrieval by a PC. Connection to the PC is via a standard serial link and data for uploading can be selected using the supplied Windows™ software.

Using the Taurus-500 for the first time

Initialising the electronic calipers

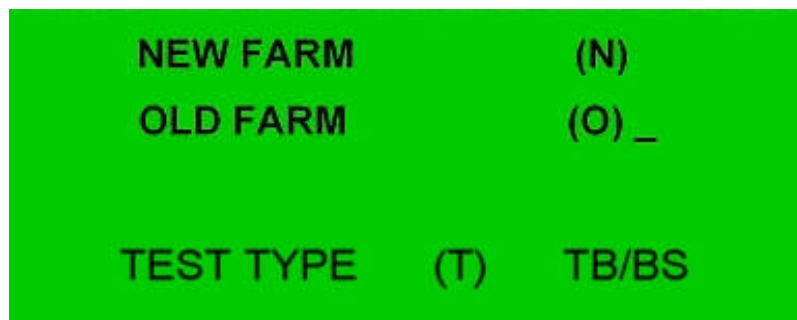
If the Taurus-500 is new or if the calipers have been changed it may be necessary to “tare” the calipers so that they read zero when they are fully closed. This can be done at any time and as often as required. To “zero” the calipers hold down the ‘**C**’ button on the keypad and turn the unit ON. The screen displays the message asking you to close the calipers fully and then to press the **ENTER** key. Make sure the calipers are fully closed before pressing the **ENTER** key. Then proceed with the data entry.

Data Entry using the Taurus-500

The following section is a comprehensive section on the means of data input for the Taurus-500. It is advised that this section be read and understood before using the Taurus-500 on a farm.

The TAURUS-500 has a 43-way alphanumeric keypad allowing names, dates and places to be entered in to the Taurus-500. As far as possible in the following, the keys to press are highlighted in **blue** and screen prompts and messages are highlighted in **red**.

Turn the unit on by flicking the ON/OFF switch on the RHS of the unit to ON



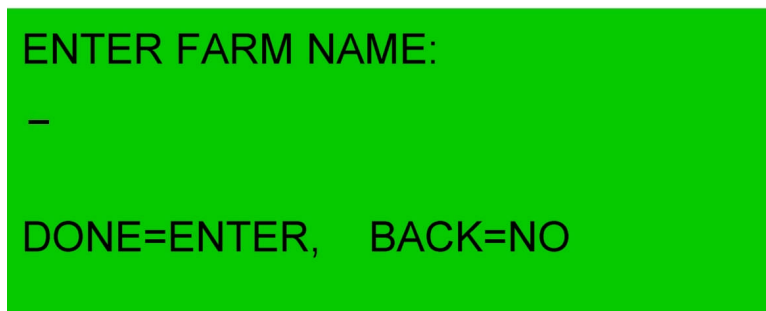
The screen presents three options. Press **N** to create a new set of records for a new farm or press **O** to open a set of records in an existing farm. Pressing **T** changes the setup of the Taurus for a particular type of test. **TB** means that data will be requested only for Tuberculosis testing information. **BS** means that data will be requested only for Brucellosis testing information and **TB/BS** means that both sets of information will be requested. The type of test can be changed any time the above screen is shown. Taurus-500 remembers your selection and will return to it next time the unit is turned on.

1. Entering data for a NEW FARM

NEW FARM (N)

When you start a NEW FARM you are prohibited in entering any more records of animals on any previous farms. Previous Farm animals' records can of course be accessed for Day 3 testing but no new records could be added to an "OLD" farm. Starting a NEW FARM assumes you have finished entering animal details for the previous Farm.

Farm Name



ENTER FARM NAME:

—

DONE=ENTER, BACK=NO

You are now prompted to enter the Farm Name. This can be any string of alphanumeric characters entered via the keypad. When done, press **ENTER**, OR press **NO** to go back to the previous screen.

CPHH Number



CPH No.

—

DONE=ENTER, BACK=NO

Now enter the CPH Number for the holding to be tested. When done press **ENTER**.

Vet Code



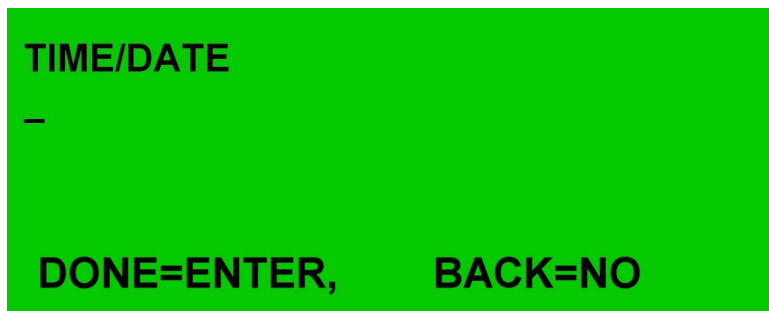
VET CODE

—

DONE=ENTER, BACK=NO

Now enter a Vet Code, e.g. person's name, LVI number etc. This is not an official entry used on the TB form but can be used as a reference later when the data is on the PC. Press **ENTER** when done

Time/Date



TIME/DATE

—

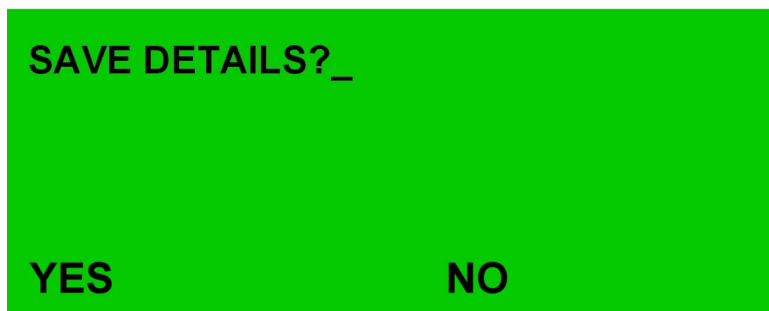
DONE=ENTER, BACK=NO

The time & date can be entered in any format desired. The top right buttons of the keypad support time and date separators so the following could be entered:

09:00 15/03/2001

When done press **ENTER**.

Note that at any time in the above process, pressing the **NO** button will take you back to the previous entry field, allowing you to re-enter this data.



SAVE DETAILS?_

YES NO

If you are happy with all the inputted values so far, press **YES** in response to the “**Save Details**” prompt. If not, press **NO**.

Pressing **NO** will take you back to the opening menu to start again. Pressing **YES** will take you straight into the first request for a Cow No.

Please note that if data is imported from a text file and downloaded to the Taurus-500 unit then the above information can be filled in on the PC and downloaded with the animal data. See the section on **Downloading a file to the Taurus-500 hand-held unit** in the section on Windows Software.

Animal Identification details

UK cow numbers consist of two parts, a herd number, which may be the same for many, if not all of the cows in a herd and a unique cow number. To aid in data entry the two parts are input separately. Once the Farm details have been entered and saved then data entry begins with a request for the first cow's herd number.

Inputting Animal Details

This stage will be reached once the Farm details have been entered and saved. Once the **ENTER** button has been pressed the next screen prompt will automatically appear in the order listed below.

Herd Number



The screen will show “**Herd No:**” as a prompt. Below this there may or may not be a number. If the unit has never been used before no number will appear, otherwise the last Herd Number used will pre-fill this space. If this is the correct Herd Number press **ENTER**. Otherwise enter the correct herd number. You may enter up to 10 characters for the herd number. When done press **ENTER** or press **NO** to leave the inputting process. By default this herd number is presented next time a cow’s data is entered, to speed data entry.

Ear Number



The screen will now show “**Ear No:**” with the cursor sitting on the line below, ready for you to type in the ear number. Up to 6 characters can be used for the ear number. When done press **ENTER** or press **NO** to go back to the previous field.

Dealing with Duplicate Ear Numbers

Due to the unique nature of the cow’s ear number, no two cows can have the same herd and ear number. Once the ear number has been entered Taurus-500 does a complete search for that ear number in all of the cow records currently entered for that farm. If a duplicate is found the following action is taken:

A screen message appears alerting the user to the duplication and asking whether to continue entering this data. It is advisable at this point to check carefully the herd and ear number of the cow currently being tested to ensure the entry error has not occurred here, since it is now easily rectified. If the cow's details are definitely correct then the user should choose to enter the data by pressing **YES** in response to the prompt. If there has been an error reading the herd or ear number then pressing **NO** will take the user back to the Ear Number entry screen. Pressing **NO** again will take the user back to the Herd Number entry screen.



If the user presses **YES** the following will occur:

Because only one cow can have the selected ear number and a previous cow had been entered as the current cow, the previous data entry is disallowed. Any data entered for the current cow will be saved against that herd and ear number. The previous entry will be flagged as a duplicate data entry and will no longer be accessible from the Taurus unit. However when the data is uploaded to a PC the disallowed cow will be entered on the form. There will be no day 3 data associated with this cow and this will be clearly marked on the TB sheet. During the course of the day 3 test it will become apparent which animal(s) were incorrectly identified and their 3rd day readings will need to be noted separately on paper. These can be used to amend the printout from the PC.

Checksum validation

In UK ear tags where the leading characters are UK and the remaining characters are numeric, the checksum will be automatically computed and checked. If the checksum is incorrect then a screen will appear prompting the user to edit the information. The options are: **YES** or **NO**. Entering **NO** will allow editing of the herd/ear number. Entering **YES** will allow the testing to proceed in the normal way. It should be noted that only newly entered animal numbers are checked on the hand-held unit. BCMS data is checked when loaded into the PC before downloading.

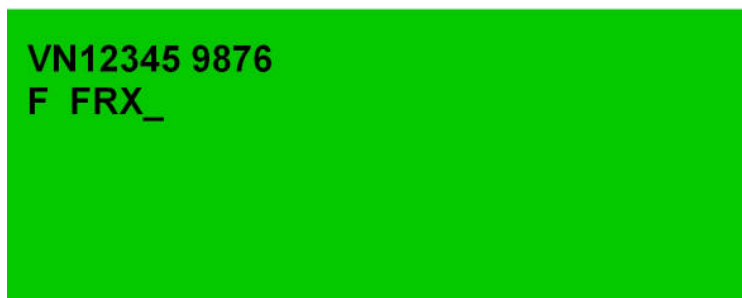
After the Herd and Ear numbers have been entered the sex of the animal is entered.

Sex.



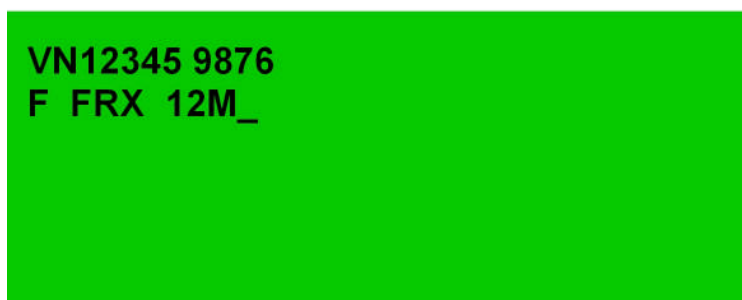
There are 6 allowable entries for the sex of the animal being tested. The allowed characters are: M (male), F (female), B (bull), C (cow), H (heifer) and S (steer). It is a good idea to enter the appropriate character now as this will allow automatic filling of the TB52 and BS5 forms. When done press **ENTER** or press **NO** to go back to the previous field.

Breed.



The machine default is **FRX**. To change this, press the delete button and put in the correct abbreviation (max 6 letters). This is then saved as the new breed default. This saves time if there are animals of all the same breed. When done press **ENTER** or press **NO** to go back to the previous field.

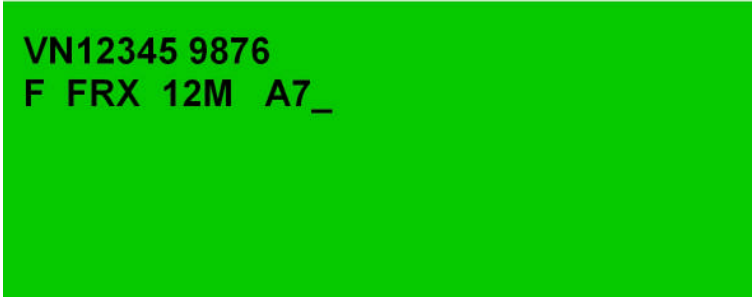
Age.



The machine default is **12M**. Change this to any text you like by entering

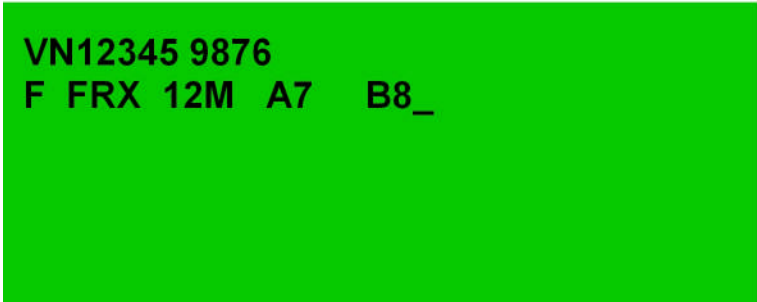
the new age e.g. **3Y** This age then becomes the new default. This is useful if batches of animals of the same age are being tested. When done press **ENTER** or press **NO** to go back to the previous field.

First Avian reading.

A screenshot of a green screen displaying the text: VN12345 9876
F FRX 12M A7_
The text is in black, with the first line on the top left and the second line below it, also on the left.

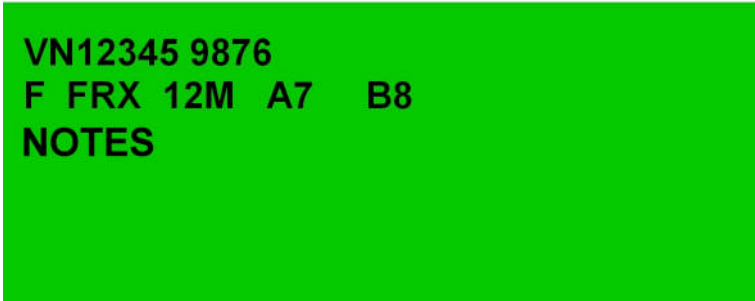
If the calipers are connected then as you move the callipers, the screen value will change to show the Avian skin measurement being taken. Press **ENTER** to accept the caliper reading or press **NO** to go back to the previous field. If the calipers are not connected then you can type in the value in millimetres and then press **ENTER**.

First Bovine reading

A screenshot of a green screen displaying the text: VN12345 9876
F FRX 12M A7 B8_
The text is in black, with the first line on the top left and the second line below it, also on the left.

Adjust and record as per the Avian measurement. When done press **ENTER** or press **NO** to go back to the previous field. If the calipers are not connected then you can type in the value and then press **ENTER**

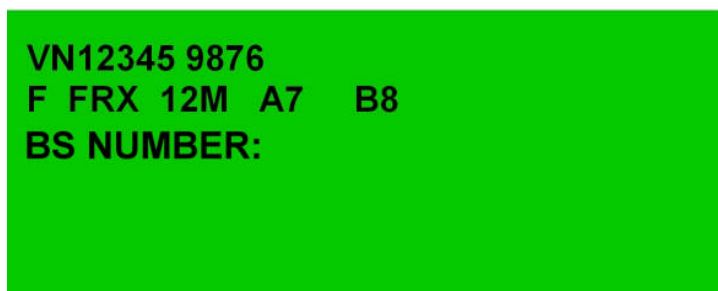
NOTES.

A screenshot of a green screen displaying the text: VN12345 9876
F FRX 12M A7 B8
NOTES
The text is in black, with the first two lines on the top left and the third line below them, also on the left.

The text '**NOTES**' will then appear on the screen. If you wish to make any notes about the animal being tested i.e. Skin TB or Johnes

vaccinated/Johnes disease suspected, make them here. You will get a chance to amend these on day 3 if required.

BS Number

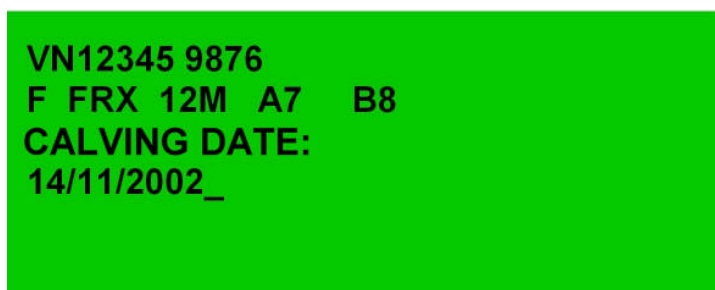


A screenshot of a data entry form with a black background. The text is displayed in white. It shows the following fields: 'VN12345 9876' on the first line, 'F FRX 12M A7 B8' on the second line, and 'BS NUMBER:' on the third line. The 'BS NUMBER' field is currently empty.

This field is not used in TB testing and if the test type is set to **TB** will not appear. Anything put in here will not be seen either later in the TB test or on the Computer TB Report, but will appear in the Brucellosis report as the blood sample number. When done press **ENTER** or press **NO** to go back to the previous field.

Auto-increment The BS number has an auto-increment feature whereby the presented number will be one greater than the last BS Number. If for some reason the BS Number does not follow on from the one before then edit and enter the new value before pressing **ENTER**.

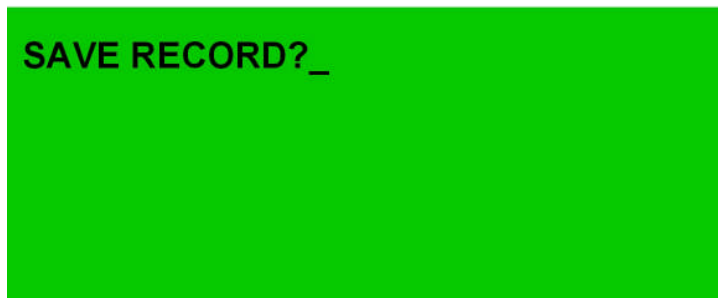
Calving Date



A screenshot of a data entry form with a black background. The text is displayed in white. It shows the following fields: 'VN12345 9876' on the first line, 'F FRX 12M A7 B8' on the second line, and 'CALVING DATE:' on the third line. Below 'CALVING DATE:', the date '14/11/2002_' is entered, followed by a cursor.

This field is not used in TB testing but may be used for other data collection purposes such as Brucellosis testing. Anything put in here will not be seen either later in the TB test or on the Computer TB Report, but will appear in the Brucellosis report as the calving date. When done press **ENTER** or press **NO** to go back to the previous field.

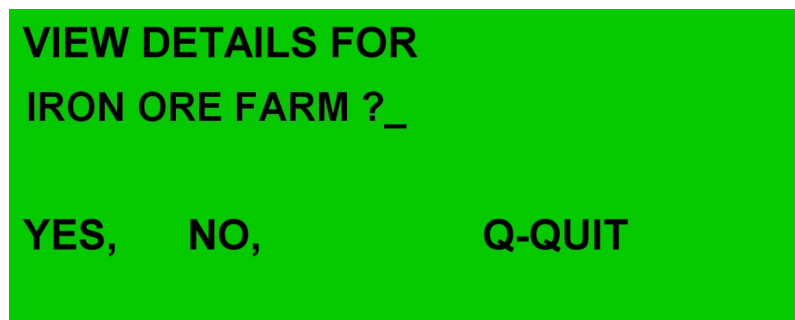
Save Record?



If all the details are correct then press **YES**. If not, press **NO**. A prompt then appears asking you whether you wish to continue adding data or not. Enter either **YES** or **NO** to the “**More ?**” prompt. Pressing **YES** takes you to the Herd Number request for another animal. Pressing **NO** takes you back to the main opening screen.

2. Entering data for an existing or OLD FARM

Select **OLD FARM** by pressing ‘**O**’ at the main screen prompt.

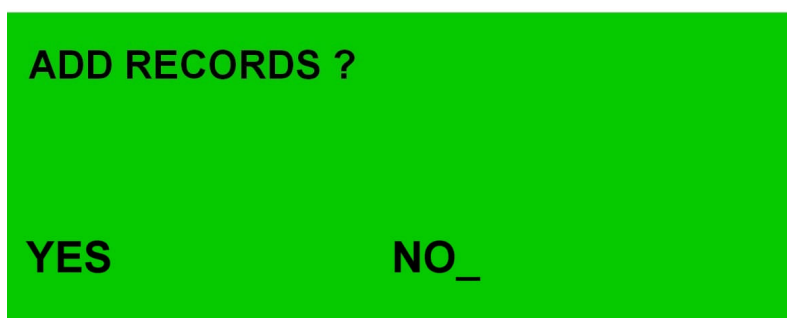


The name of the first farm stored in the unit will be displayed on the screen followed by a question mark. Press **YES** if you wish to access these records or **NO** to see more in the list. To go back to the main screen press **Q**.

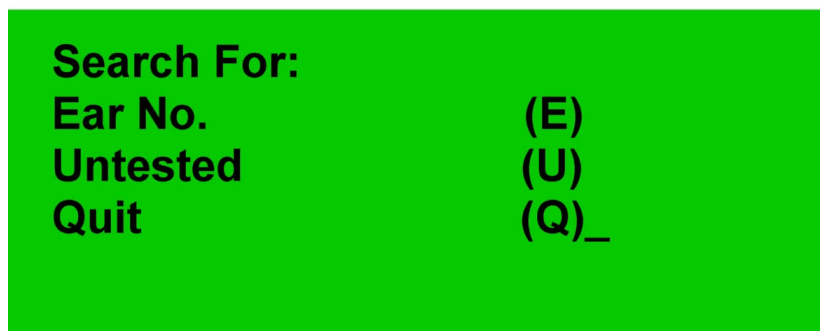
If there are no Farm Details previously entered then the screen will show ‘**No Data Recorded**’ before returning to the main screen. Once all the farms have been listed the main screen is again shown.

If the Farm selected is the last farm on the list or the **only** farm on the list then these records may be added to, so the prompt ‘**ADD RECORDS?**’ appears.

Adding records



If there are more cows to add then select **YES**. The '**Herd No.:**' prompt will appear and data input can continue as in the previous section. If the Farm selected is not the last on the list or you answer **NO** to the '**ADD RECORDS?**' prompt then the unit assumes this must be day 3 of the test and the Search screen appears:

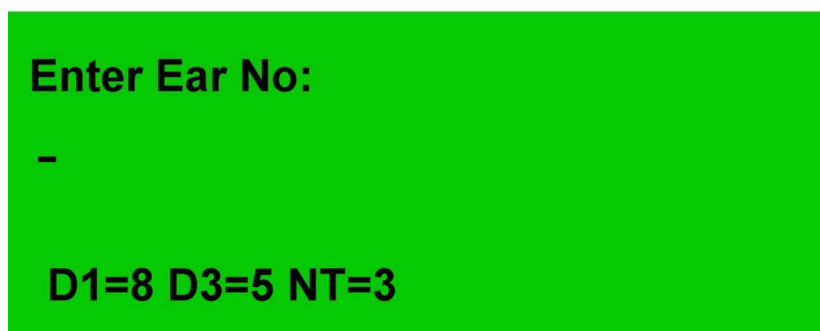


The screenshot shows a black screen with white text. At the top, it says "Search For:". Below this, there are three options listed vertically: "Ear No." followed by "(E)", "Untested" followed by "(U)", and "Quit" followed by "(Q)". A white cursor is positioned at the end of the "(Q)" option.

Pressing '**Q**' at this point will return you to the main entry screen.

Searching for a record by Ear Number

Pressing '**E**' will allow you to search for a cow by its ear number.



The screenshot shows a black screen with white text. At the top, it says "Enter Ear No:". Below this, there is a horizontal line for input. At the bottom of the screen, there is a status bar that reads "D1=8 D3=5 NT=3".

Before any characters are entered the screen shows the status of testing on the current farm. D1 shows how many cows were tested on Day 1. D3 shows how many cows have been tested on Day 3. NT shows how many cows have not been tested either on Day 1 or Day 3.

Any characters entered are matched to the end of the cow's full number (herd and ear number combined). Thus pressing '**1**' will find the first cow with an ear number ending in 1. Entering '**12**' will find the first cow with an ear number ending in 12. If the cow found is not the cow required, then pressing '**NO**' will find the next cow in the list matching your search criteria.

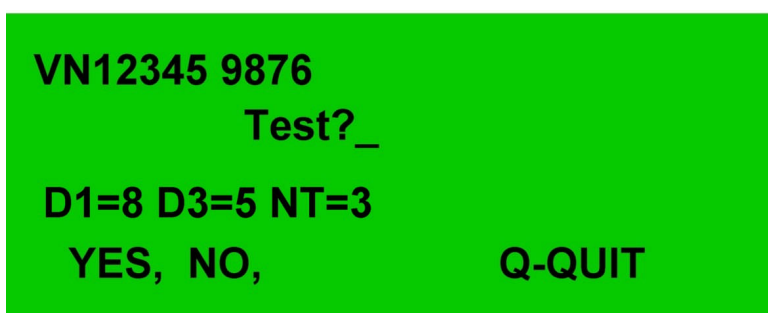
You may edit the number to search for at any time by using the

DELETE and alphanumeric keys of the keypad. If a cow's number appears with an asterix next to it, this indicates that the cow has already had its day 3 reading entered.

If at any time you wish to leave this Search routine press '**Q**'.

Searching for day 3 untested animals

Pressing '**U**' will start listing the untested animals and will present the first untested animal in the list at the top of the screen.



VN12345 9876
Test?_
D1=8 D3=5 NT=3
YES, NO, Q-QUIT

Below this is the prompt: "**Test ?**" If this is the animal you wish to test, press **YES**, otherwise press **NO** until the animal you are searching for is found. When the end of the untested list is reached the unit will display "**End of List**" before returning to the main Search screen.

The status of the animals that have been tested on Day 1, Day 3 and Not Tested is again shown.

Pressing '**Q**' at any time while listing untested animals will exit the listing screen and return to the main search screen.

Entering the day 3 data

Once an animal has been selected the full ear tag number is shown at the top of the screen and two avian readings are shown.

Second Avian reading

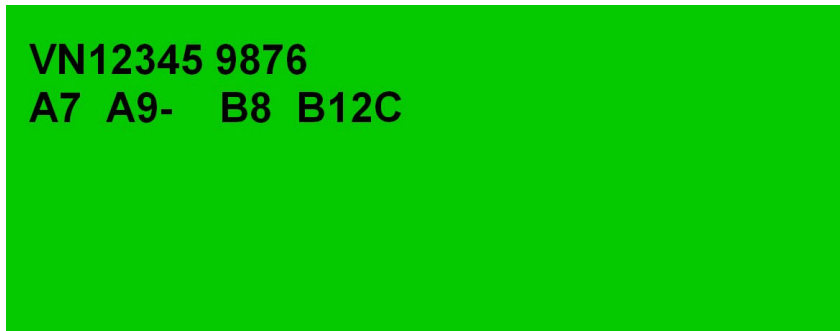


VN12345 9876
A7 A_

The first is the Day 1 reading and the second is the current reading from the calipers if connected. If they are not connected the prompt will sit beside the **A** waiting for an input value in millimetres. Adjust the calipers to

measure the skin or, if the calipers are not connected, type in the skin reading and press **ENTER**. A dash (-) appears next to the recorded measurement. This is the default (null) description of the reaction. To enter **SO** or **C** descriptions, then press “**S**” or “**C**” on the keypad. The corresponding **S** or **C** will appear next to the Day 3 avian reading. To remove a description entry simply press **DELETE**. A dash(-) will again appear. When done press **ENTER** and repeat for the bovine reading.

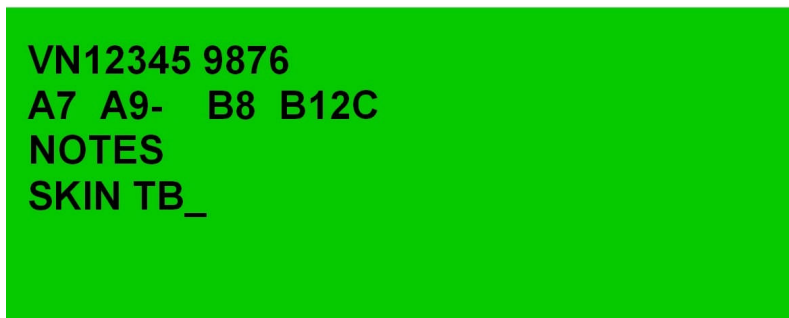
Second Bovine Reading



VN12345 9876
A7 A9- B8 B12C

If the day 3 reading is less than the day 1 reading then an error message will appear and you cannot proceed until a sensible reading has been entered. When done press **ENTER**. If any notes were made on day 1 in the **NOTES** field then they will now appear as a prompt.

Notes

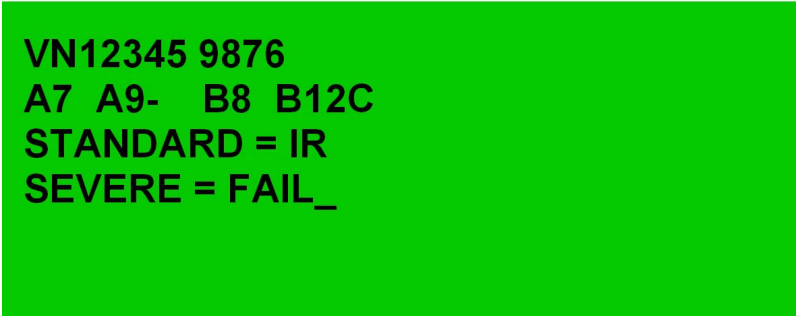


VN12345 9876
A7 A9- B8 B12C
NOTES
SKIN TB_

If no remarks were stored on day1 then the message ‘**NOTES**’ will appear with nothing beneath it. Either the existing remarks can be edited or new remarks added. Once done press ‘**ENTER**’.

Test Interpretation.

The unit will immediately perform two interpretations based on a standard and a severe test and display the results on screen.



VN12345 9876
A7 A9- B8 B12C
STANDARD = IR
SEVERE = FAIL_

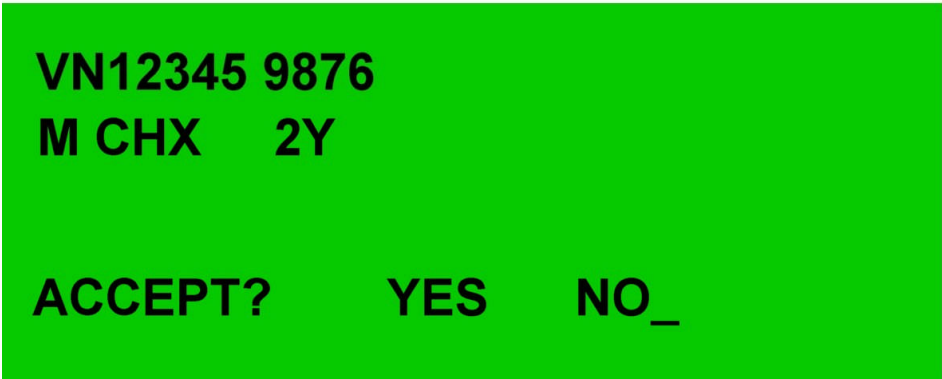
Once you have read these results, press **ENTER** to proceed. You are then prompted to **SAVE** the results.

Answering **YES** will save all the readings for this record to MEMORY, mark the record as read and return to the **Search record** screen.

Answering **NO** will simply return you to the **Search record** screen without saving any of the data.

Using Data already downloaded to the Taurus unit

It is possible to pre-load the Taurus-500 unit with data obtained from the BCMS website or similar. In this case all the cow details will already be on the unit and it is simply necessary to find the correct animal record before adding the skin readings. When an ear number or part ear number is entered in response the search by Ear No. prompt the appropriate animal will be located as before. This time when the **YES** button is pressed to select this animal, all of the downloaded details are displayed on the screen at the same time. If these details are correct, press **YES** to proceed immediately to the skin readings routines as before.



VN12345 9876
M CHX 2Y

ACCEPT? YES NO_

Using the TAURUS-500 Windows Software

NOTE:

This software has been designed to run on PC's using Windows 95/98/2000 & NT platforms.

Hardware requirements.

The TAURUS-500 connects to the PC via a serial link running at a fixed rate of 19200 baud. This rate is not changeable. A spare serial port is required on the PC running this software. The program is best viewed at a screen resolution of at least 800 x 600. 1024 x 768 is preferred.

Running the software.

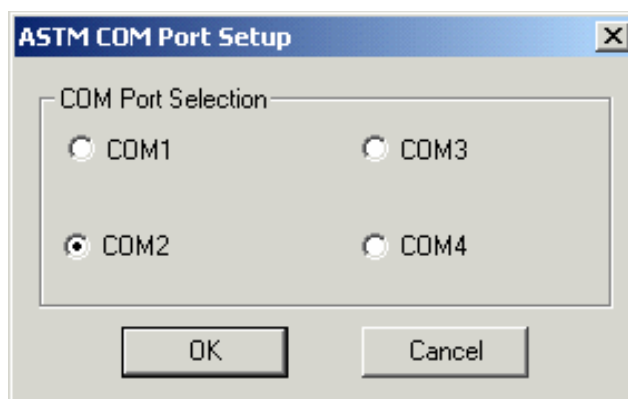
The Taurus-500 software is supplied on a CD-ROM. When this CD-ROM is put into a PC then the software will automatically run and begin the installation procedure. Follow the prompts of the installation routine. For a fast installation you can accept the default settings and the software will be loaded into the C:\Program Files\Vetronic Services LTD\Taurus directory. To select another destination directory use the Browse option. If the installation does not begin automatically the select **Start/Run...** from the bottom left-hand corner of your windows screen. Then type in D:\Setup.exe where D is the letter of your CD drive. The installation will begin.

Connecting the PC to the Taurus-500:

Connect a serial cable from the spare port on the PC (9-pin D-TYPE Female) to the port on the data-logger (9-pin D-TYPE Male). Hold the "ENTER" button down while you turn on the Taurus-500 unit and the words "PC CONNECT.." will appear on the screen. If "PC CONNECT.." does not appear, then turn the unit off and repeat the procedure to enter PC mode.

Uploading Data:

Before you can upload or download data from the hand-held Taurus unit it is necessary to select the COM port or Serial port that the Taurus unit is connected to. From the main Toolbar menu select Setup and then Port Connection. A small dialog box appears with 4 possible COM ports to choose from.

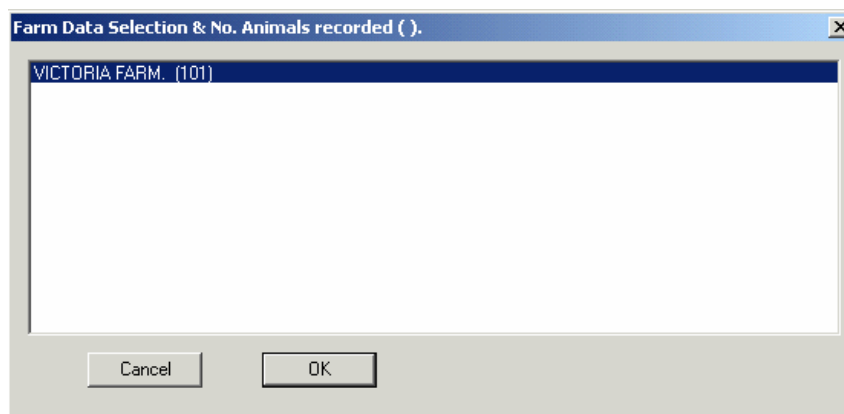


Select the appropriate COM port and then click OK. This only has to be done once as the port selection is then saved and used whenever you want to access the hand-held unit. The COM port selection can be changed at any time.

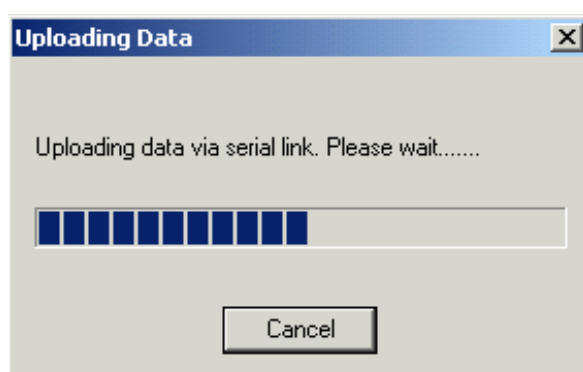
(Please note that in some computers problems may be experienced with the serial link if the Receive Buffer of the FIFO for that port is set to zero. The Receive Buffer size may be set via the System Settings on the Control Panel in your computer. Set the Receive Buffer to a non-zero amount or click on the system defaults button in the Advanced Setup of the COM Port.)

Now launch the TAURUS program and from the file menu choose **File\New**

Another selection box will appear listing the farms currently on the data-logger. The numbers next to the farm names in brackets indicate how many cattle have been tested on that farm.



Select a farm with the mouse and press OK or double-click the chosen farm. The data will be uploaded and displayed on the screen in a standard DEFRA-style TB Form. During the upload a dialog box will show the progress of the operation.



On completion of a successful upload, the dialog box will disappear. If there are any communication errors during the upload then the data is considered corrupt and the upload is aborted. A dialog box will appear to alert you to a communication problem. The Taurus-500 unit also displays status information on screen during data transfer and will show the result of the transfer with either a **"Download OK"** or **Download Error** message.

The initial display of the data is as the TB52A form, which lists the cows and their readings. Along the top of the screen are a number of icons and file menu options.

The main Toolbar icons and their meanings

	Opens the Upload Data Dialog		View data at 2 x normal size
	Open an existing Taurus file		Go to the next page of data
	Save the current file to disc		Go to the previous page of data
	Display data on the TB52A form		Go to the last page of data
	Display data on the TB52 form		Go to the first page of data
	Display data on the BS5A form		Print the current on-screen form
	Display data on the BS5 form		Preview the current on-screen form
	View data at normal magnification		View the 'About' Dialog box
	View data at 1.5 times normal size		

To try out the software Click on the icon that shows a document with a 52

above it  to view the TB52 form. Some of the entries will be filled in but some will need data to be added to complete them. Click on the 5 or 5A icons to see the Brucellosis data and submission forms. Clicking on the 1.0, 1.5 and 2.0 icons will instantly change the magnification of the data on the screen.

Some of the icons may not be active. For example if there are fewer than 20 cows tested then the Next and Last page icons will not be active.

The icons allow you to change the way the data is viewed but do not allow you to edit the data on the screen. To edit the data see the following section.

Editing the on-screen data

TB52A and BS5A forms

Any individual record entry can be edited by double-clicking on it on the TB52A form or the BS5A form. Double clicking on a record will bring up a dialog box detailing the existing data for that record.

The screenshot shows a dialog box titled "Record number: 1" with a close button (X) in the top right corner. The dialog contains the following fields and controls:

- Herd Number:** Text box containing "UK262310".
- Remarks/Notes:** Text box.
- Ear Number:** Text box containing "100054".
- Sample No.:** Text box.
- Management tag:** Text box.
- Calving Date:** Text box.
- Breed:** Text box containing "AAX".
- Sex:** Text box containing "M".
- Date of Birth:** Dropdown menu showing "20/04/2002".
- Buttons:** "Delete this record", "Cancel", and "OK".
- Readings Section:**

	1st Reading	2nd reading	Reaction
Avian	0	0	-
Bovine	0	0	-

To edit an entry click in the edit box and enter the new value. Click OK to save the changed record. The edited record will be updated and shown on the on-screen form. Note that in the text box for Sex, the following can legitimately be entered: M, F, H, C, S, B, although in the TB52A and BS5A forms the sex is described only by F or M. This translation is done automatically but does not alter the sex code attributed to that animal.

To delete a record click on the **Delete This Record** button. This permanently removes a record from the sheet. You can add a new record by selecting SETUP/ADD NEW RECORD from the main toolbar menu.

Avian & Bovine Readings

The avian and bovine readings can be edited from this edit box. Values are validated before saving so it is not possible to save a 2nd Reading with a value less than the 1st Reading.

Apply zero change

If, following a 2nd day reading at the farm, only a few cattle were noted as having different values then the 'Apply zero change' facility will perform an automatic entry for the 2nd reading of all the remaining cattle. By applying a zero change this means that all day 3 readings will be entered as the same as day 1 readings. To access this facility select SETUP/APPLY ZERO CHANGE from the main toolbar menu.

Note that for animals with no entry of day 1 values, the entries will not be changed. That is values of 0,0 will remain at 0,0.

TB52 and BS5 forms

In any screen, right clicking on the displayed form will bring up a dialog box detailing information required for the TB52 and BS5 forms.

TB52 and BS5 Form details

Owners name: Mr K Simpson

Address of owner: VICTORIA FARM
Vitcoria Lane
Hepplesmead
Little Compton
Herefordshire

Telephone No: 01263 149705

Herd Address if different from above:

Telephone No:

Practice address: Compton Veterinary Group
The Old Market Square
Higher Compton
Herefordshire
HF12 1TG

Telephone No: 01263 409799

CPHH Number: 01 179 1453 01

OS map reference of main farm premises: 18743218 (Max 8 digits)

OS map reference of cattle location if different from above: (Max 8 digits)

Vet Code: KAS_001

Time/Date: 12:20 14/11/2003

Date TB test commenced: 17/11/2003

Date of Brucella blood test: 17/11/2003

Reason for test: Routine Herd Test

Herd Type: Dairy

Cancel Save

All of the items on the form can be edited with the exception of the Vet Code and the Time/Date stamp entered into the Taurus unit. These values are not used on the TB52 and BS5 forms but are included for record keeping as a permanent record for practice use only. To enter the date of the test for TB and Brucellosis use the drop-down calendar on the right hand side of the dialog box. The herd type and reason for the test can also be entered from this dialog box. When done, click on 'Save' to keep your changes or use 'Cancel' to leave without making any changes.

Practice Details

The BS5 form has an entry for the practice address. To save having to enter this information for every test, the data in this address box is kept in the registry and will automatically appear every time a new test is uploaded to the PC or a CTS file imported.

Completing the BS5 and TB52 forms

The Taurus-500 software will automatically fill in a number of fields of the BS5 and TB52 forms. However there are a number of fields that need to be filled in and signed by hand.

On the TB52 form you will need to fill in Questions 8 – 16 by hand.

On the BS5 form you will need to fill in the sections on Records, Mileage and type of test manually before submitting.

It is recommended that you make a copy of these signed forms, before submitting, to keep in your records.

Changing the interpretation level.

The data displayed on the TB form can be interpreted using either the standard or severe levels of interpretation. The default level is standard. The level in use is shown on the TB52 form itself in the heading of the result column.



Descr. of reaction	Result (Severe)	Remarks (including description of lesions of skin tuberculosis and record of clinical evidence of Johne's disease, etc.)
-	-	No Day 3 ;
-	-	

On farms where the severe level of interpretation needs to be applied then use the **'Setup/Severe Interpretation'** menu option to turn severe interpretation on. A tick appears next to this menu item when severe interpretation is selected. To turn off severe interpretation click on the **Setup/Severe Interpretation** menu option again. The tick disappears from the menu option.

Loading text files for downloading to the Taurus-500

The Taurus-500 software will allow you to import text files for downloading to the hand-held unit. These text files must be laid out in a certain way based on the format of the CTS files produced by the BCMS. In order to integrate with Taurus-500 it is a simple matter to create your own comma separated value (csv) files by following the pattern below.

Each record must be identified as a type **A** BCMS record by having a single capital A fixed between two commas - **,A,** The record may have data preceding this **,A,** identifier but the pattern afterwards must be as follows for proper integration of the file:

Immediately following this is a sequential number, which identifies the record number in the file. This is not used by Taurus-500 but must be present or blank - **,A,1,** A comma separates this from the next field.

Next is the official ear tag number followed by a comma –

,A,1,UKG8903 00067,

Next is the breed (up to 6 characters) followed by a comma

,A,1,UKG8903 00067,FRX,

Next is the sex of the animal followed by a comma

,A,1,UKG8903 00067,M,

The last item used is the date of birth which must be in DD/MM/YYYY format **,A,1,UKG8903 00067,25/12/2000,** - again followed by a comma.

The end of the record is identified by a carriage return and a line-feed. In a standard text editor this just means starting the next record on the next line.

A short example of a csv file might be:

```
Manor Farm,A,1,UK T8903 00067,CH,F,25/09/1997,,,MBR,,,
Manor Farm,A,2,UK T8903 00068,FR,F,14/09/1997,,,,,,BSM,
Manor Farm,A,3,UK T8903 00069,SIM,M,16/09/1996,
Manor Farm,A,4,UK T8903 00070,CHX,M,25/08/1997,
Manor Farm,A,5,UK T8903 00071,SM,F,02/02/1999,
```

In this example Manor Farm plays no part in the integration. Neither do the random entries after the date of birth. These will be ignored. The comma after the date of birth however must be present.

Importing a text file

To import a text file, either as a BCMS, CTS file or as a native .txt or.csv file click on **File/Open CTS File** in the main toolbar menu. A dialog box will appear from which you can select either 'csv' or 'txt' files. Once a file has been selected it will be imported and the data presented in the normal way on the TB52/A and BS5/A sheets. The object of importing one of these files is to download it to the Taurus-500 hand-held unit so that all relevant cow data is present on the unit when the test begins. It is then a simple matter to find an individual cow and enter the Avian and Bovine readings once on the farm.

Downloading a file to the Taurus-500 hand-held unit

There are two types of files that can be downloaded to the hand-held unit –

- 1) Raw text files as produced from an import of a text/csv file or
- 2) A true tbs file which can be the data from day 1 or day 3 of a test.

The section above describes how to import a text file. See the section on ***Saving the data*** for information on how to free the memory of the Taurus-500 unit between tests.

To download the data currently on the screen click on the **Download** option on the main Toolbar and then select **Download This File**. Before the download can proceed a dialog box will appear requesting some Farm information consisting of Farm Name, CPH No. Vet Code and time/date stamp. The first two items are required. The last two are optional. Once this information has been entered a download dialog box appears with a progress bar indicating the length of time to complete the download. If the download is successful, the dialog box will disappear at the end of the transfer and the hand-held unit will display the text "Download OK". During the download the hand-held unit will display the text "Receiving Data"...

Error checking is employed on both uploads and downloads. If any error is detected, the download or upload will be aborted. In this instance repeat the procedure after turning the Taurus-500 unit OFF and back ON again with the ENTER key held down.

Saving the data

TB reports can be saved as files via the '**File/Save**' or '**File/Save As**' options. All files are saved with the .tbs file extension. Files can be printed, faxed and opened using the TAURUS software. Data is saved as a tbs file whether it is a completed test or a part test. Additionally ANY tbs file can be downloaded to the Taurus-500 hand-held unit. This allows for uploading and saving of data even after day 1 of a TB test.

For example, suppose you have a 600-cow test to do on the Monday and a 400-cow test to do on the Tuesday. The total number of cows to test just exceeds the capacity of the Taurus-500 unit since the capacity is a little over 900. Therefore after the Monday test, upload the data to the PC and save the file as **Monday Part 1.tbs**. Then erase the data from the hand-held unit (see the following section). Now the Taurus-500 unit is empty and ready for the 400-cow test on the Tuesday. On Tuesday upload the data after the test and save it as **Tuesday Part 1.tbs**. Erase the data remaining on the hand-held unit. Then open the file, **Monday Part 1.tbs** and download it to the Taurus-500 unit ready for the second part of the test on the Thursday. This way data is kept secure and the 900-cow capacity of the Taurus-500 unit does not become a limiting factor in its use. Note also that had the CTS files been available, these could have been downloaded on the Monday and the Tuesday prior to the respective tests.

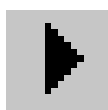
Erasing Data from the TAURUS Hand-held unit.

Data can only be erased from the unit when connected to the PC. This is to prevent inadvertent loss of data in the field. Data can also only be erased when an active file is present on the screen.

To erase data select 'Setup/Erase Data from TAURUS' in the main menu bar. You will be warned that proceeding will destroy all data irretrievably. If you continue another dialog box asks that you are sure before continuing. If you answer yes to this then all the data on the TAURUS unit will be destroyed and cannot be retrieved. Only erase data once the TB forms have been safely saved on the PC.

Navigating through the TB and Brucellosis forms

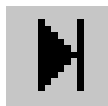
As per a standard TB52 form there is room for 20 cows on each page and as per a standard BS5 form there are 40 animals on each page. Buttons on the menu bar allow you to navigate through the pages when there is more than one page of data either by moving one page at a time or jumping to the first or last page using the icons:



Move to the next page



Move to the previous page



Move to the first page



Move to the last page

Using the Taurus-500 for Brucellosis forms

When data has been entered for a Brucellosis test, either alongside a TB test or independently, the data can be viewed in the same way as the TB test. Select SETUP from the FILE menu and choose 'Brucellosis form'. The screen will change from a TB form (TB52A) to a Brucellosis form (BS5A). All the entered calving dates and additional data will appear on the form. This is a standard Brucellosis form and can be printed directly by choosing the FILE/PRINT command. In a similar manner to TB forms the data can be saved as a file on the computer. Note that if only Brucellosis information is present, not TB information, the file is still saved as a tbs file.

Printing and Print preview

The standard forms are intended for printing on A4 paper in Portrait mode. For this reason even if the paper orientation is changed before a Print or Print Preview the program will not allow this and printing in portrait mode will still occur. It is also intended that the forms be printed using a colour printer so that the avian readings are shown in red. If you are using a black and white printer be sure that the forms will be accepted by DEFRA in that format. You will need to check with your local DEFRA office before submitting these forms. This consideration also applies to faxing documents as any fax transmission will be in black and white also and may need to be backed up by a coloured original. These are issues that you will need to resolve with your local DEFRA office.

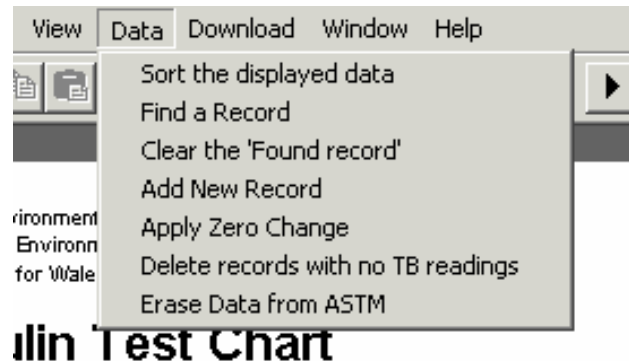
Print and Print Preview will print the form that is currently showing on the screen. Therefore if you have a TB and Brucellosis test to print you will need to display the TB52A form and print it, display the BS5A form and print it and then display and print the TB52 and BS5 forms.

Double-sided printing

Most printers will allow double-sided printing so the TB and Brucellosis forms can be printed as they would normally appear in the hand-written form. The TB52 and BS5 forms are both single-sided forms. To print the forms as double-sided documents click on File/Print from the main toolbar menu. A dialog box will appear with the name of the default printer shown. Click on the properties button to open the properties for that printer. In the properties dialog box will be an option for double-sided printing (if your printer supports this). Click on this and then close the dialog boxes by clicking on OK. On printers without a duplex unit, the first side of the test (even page numbers) is printed out and then the paper must be turned around and placed back in the printer for the second side of the test to be printed (odd page numbers).

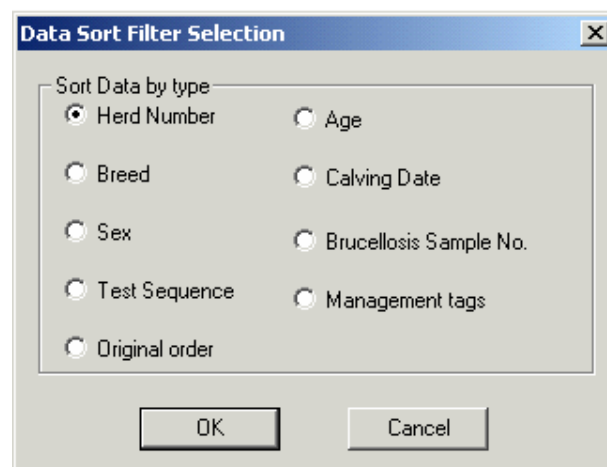
Working with the data

The Data menu has 7 sub-menu items in it to allow you to do the following:



Sorting the displayed data.

Data can be shown on screen listed in the following order: Herd Number, Management Tags, Breed, Age, Sex, test sequence, calving date, brucellosis number and the original file order. Choosing “Sort the displayed data” opens a dialog box ready to make a selection.



Make the selection and click OK. The on-screen data will be re-ordered. To return to the original order (either the BCMS file order or the upload order from the hand-held), select **Original Order**.

Find a record.

Any record can be found by searching for part of an ear/herd number, brucellosis bottle number notes in the remarks column or for duplicates. The found record is highlighted in blue text and the program jumps to the page where the record is found. Depending on the screen magnification used and the scroll position the record may not immediately be visible. Scroll down the page to find the highlighted record.

Clear the Found record

Select this option to remove the highlighting from a previously found record. The highlighted record can be un-highlighted at any time and does not appear on the print-out.

Add a New record.

Selecting this option brings up the Record Editor dialog box. The record number is shown in the title bar of this box. Add the appropriate data and click on OK to save the record and add it to the on-screen form. If you have the data sorted in a particular way then it may be necessary to re-sort the data following an Add or Delete operation.

Apply Zero Change

Following a TB test it may be that only a few animals have Day 3 entries because only those with reactions were noted at the time of the test. In this case all records where the Day 3 reading is the same as the Day1 reading can be updated automatically. Select Data/Apply Zero Change. A dialog appears informing you that some day 3 readings have been entered and that all the others can be updated. Selecting Yes will perform the task and update the data on the screen.

Deleting records with No TB Readings

If pre-loaded information has been used to perform a TB test on a farm it may happen that the pre-loaded information does not match the farm situation. Pre-loaded cow information for which no cow exists will have no TB entries against them. When the test is completed and uploaded to the PC these "empty" entries can be automatically deleted by selecting the "Deleting records with no TB Readings" option. This operation is irreversible. If a mistake is made it will be necessary to upload the information from the hand-held again or revert to a previously saved version of the file.

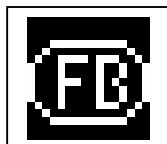
Erase data from the Taurus unit

This option allows all downloaded and recorded data on the Taurus unit to be erased. This operation is final and non-reversible. ALL DATA WILL BE REMOVED.

Management Tags

Support has been added for Management tags. These are any form of short-codes that may be used as an alias for the official Ear Number, e.g. FB61 for Freeze Brand No. 61. Any form is supported be it numeric, alphabetical or both. These management tags are not normally shown on the TB52A form but may be displayed by selecting the View/Management Tag information option from the main toolbar menu.

Alternatively clicking on the icon



will alternately show and hide the information.

This information will appear in the final Print Out if the option is selected. Otherwise the report will be printed as normal. The management tag information is shown in a different colour to distinguish it from any part of the official ear mark.

UK herd number validation.

All new UK-style herd numbers are checked when being read in from a BCMS or other text file. If an ear number is found that violates the checksum calculation then the import will pause and a dialog box is displayed offering the chance to edit that record. If the mistake is obvious it may be corrected. Alternatively add a comment in the remarks column such as "CS ERROR" and let the import continue. Any records that need checking after the import can be easily found by searching for a record with "CS ERROR" in the remarks field and corrected.

Appendix A

Specifications

Mechanical

Dimensions	23cm x 11cm x 5cm
Weight	600g
Construction	Rugged Polyamide plastic in light grey
Caliper range	0-50mm
Caliper resolution	1mm

General

Screen size	75mm x 25mm
Screen type	Reflective LCD 4 row x 20 character
Caliper connection	9-way D-Type connector
PC Connection	9-way D-Type connector
Electrical Supply	4 x AA batteries
Power	75mW
Current consumption	12.5mA nominal
Battery Life	125 hours+ continuous use

Data Storage

Medium	Internal non-volatile RAM
Data retention	5 years
Data size	8 x 32K internal EEPROM
Max No. of farms	10
Max No. of animals	940

Software

Platforms supported	Windows 95/98/XP/2000/NT
Software media	CD-ROM or Floppy disc
Installed forms	TB52A TB52 BS5A BS5



Designed by Vets, for vets

**Vetronic Services LTD
Torquay,
Devon,
United Kingdom**

Tel: 01803 323943
Fax 0870 129 4705
e-mail enquiries@vetronic.co.uk
web www.vetronic.co.uk