

## Set Up Options

From the main menu:

Press the **D** Quick-Key to select options.

From here the time can be set by the operator. Other changes can be made, however, these are password protected and must be carried out by an approved service agent.

The following options are available:

### **Full Calibration.**

For details, please see the Calibration Manual.

### **Serial Number & Product Code.**

This password allows just the serial number and product code to be changed.

IMPORTANT! If the serial number is changed, the screen will prompt for an authorisation code. You must ring Advance Welding and quote the challenge code shown on the screen. An authorisation code will then be given that will allow the serial number to be changed.

### **Calibration Period**

When this period is set, it will remain the same, even after recalibration, until it is reset. The calibration period runs from the last calibration date, and is set in months.

If 00 is entered then there will be a never ending calibration period set, and the unit will never prompt that its calibration has expired.

If 01 to 99 is entered, this is the calibration period in months. Twenty Eight days before the calibration is due to expire, the unit will start to warn the operator, displaying the number of days left before it expires.

After the calibration period is entered, the unit can be set to WARN that the calibration has expired or LOCK OUT. If Warn is set, then the unit will continue to weld after the calibration has expired, but it will display a warning message when switched on, and it will record this on the data



log download. If Lock Out is set, the unit will lock and force it to be calibrated, asking for a calibration password.

## **Information**

This password will show two screens of information. The first screen will show:

Part number	The Advance Welding product code
Serial number	The serial number of the welding unit
Calibration date	The date the unit was last calibrated
Calibration period	W (warn when overdue) or L (lock when overdue) 00 = no period set 01 to 99 = calibration period in months.

The second screen will show the weld counters:

Current count	This is the lifetime weld count of the unit
Last calibration	This is the weld count when the unit was last calibrated
Since calibration	This is the number of welds since last calibration

## **Verify Calibration**

This password will display all of the calibration details that were entered at the last calibration. Pressing the "A" key will scroll through screens showing the calibration and ADC values. This allows the calibration of the unit to be checked without changing any values.

## **Show First Weld Date**

This will show the date the unit was first used, after it has been manufactured. This is the start of the manufacturer's warranty period.

## **Set distributor sale date**

To allow a distributor to show when a unit was sold to the customer, the date can be set. This allows more accurate record keeping.

When the password has been entered, the current date and weld count are shown. These can be accepted by pressing the A key. If the purchase date needs to be changed, pressing the B key will allow a new date to be entered.



## View distributor sale date

The date and weld count when the unit was sold by the distributor are shown.

If WSET has not been set, then the date the unit was manufactured will be shown instead.

## Owner Details

Three lines of 18 characters of owner information can be programmed into the unit. This will be displayed when the unit is switched on.

The third line of information is also shown on the data log download, and can be used to display the equipment plant number.

The title for the owner information can be set to either "For service and repair" or "Property of".

## Operating Modes

The screen will show the available modes of operation.

A = Manual

B =

C =

D = Bar code

Select the mode by pressing the relevant letter key. Modes can then be toggled by pressing the relevant letter. Press the Star key (\*) to save changes and step back.

### Manual:

A= Mode	Enable/Disable
B= Cooling time	Enable/Disable
C= Logging	Ask/Always/Disable
D= 39,5v lock	Enable/Disable

### Bar Code:

A= Mode	Enable/Disable
B= Cooling time	Enable/Disable
C= Logging	Ask/Always/Disable
D= Traceability	Enable/Disable



## **Set the time.**

The time can be set.

## **Set the date**

To stop the operator changing the date and so changing the calibration expiry date/period, the date setting is password protected. This password is entered when setting the Time and Date from the Options menu.

## **Change language**

To stop the operator changing the display language and then not being able to understand the messages, the language selection is password protected. Once the password is entered, all available languages can be selected from the menu.

## **Set the date and temperature to UK format**

The date will be shown as dd/mm/yy and the temperature will be shown in Celsius.

## **Set the date and temperature to USA format**

The date will be shown as mm/dd/yy and the temperature will be shown in Fahrenheit.

## **Detailed information start up screen ON**

The first screen shown at power up will display detailed information of: today's date, the calibration due date, the supply voltage and the supply frequency.

## **Detailed information start up screen OFF**

This password will turn off the detailed start up screen.

## **Bar code ohms checking override**

If the fitting resistance read from the bar code does not match the measured resistance of the fitting, then the welding unit will show an error by default. This password allows this check to be overridden. A warning screen will show informing the operator that the resistance is different, and asking if he wants to continue. This mode allows bar code fittings to be re-welded when still slightly warm, if a fault happened during the normal welding cycle.



## **Bar code ohms checking normal**

This password will set the ohms checking back to default and an error will happen if the measured resistance is different from the code.

## **Download format XLS**

This will set the download format to plain text XLS spreadsheet.

## **Download format PFD**

This will set the download format to encrypted PFD file. It will also show an E after the software version on the first screen.

## **Delete data log memory**

This is used to clear the data log memory. This can also be done by downloading the data and the unit will then ask if the memory should be cleared.

## **Hidden download**

This is a hidden download option that will download all welds in the memory, even if they have not been data logged. The unit will always record the weld data, even if not set to data logging. When a standard download is carried out, only those welds flagged as logged will be downloaded from the memory. This option will download every weld, allowing a unit that has never been set to data logging to have the weld memory downloaded.

Welds that were not data logged originally will show "non-datalog" in the job reference field.

The weld memory is 2K, and can store 2048 records. When it becomes full a warning message will be shown (in data logging mode) and the memory will start to overwrite the records at the beginning of the file. This will be done in blocks of 128 records, meaning the last 1920 to 2048 records will be available for download.

## **Software update**

The new software files must be loaded into the root directory of a memory pen. There are two files, the loader program then the relevant software update.



The memory pen must be plugged into the USB connector on the welding unit. After the password has been entered, the unit will check that the software is on the memory pen and ask you to accept that the update should take place. Pressing the A key will then flash the new software. The unit will erase the old software and upload the new software. When it is complete, the screen will show "Success!". Switch the power off.

**IMPORTANT:** If the unit is being upgraded, then a license screen will be shown when the unit is switched on again. You must ring Advance Welding and quote the Serial Number of the unit and the Challenge Code displayed on the screen. A license key will then be provided to allow the upgrade to take place.

### **Turn on fusion operator badge: Every weld**

This will force the operator to "unlock" the welding unit every time a weld is carried out.

### **Turn on fusion operator badge: Every power on**

This will force the operator to "unlock" the welding unit every time the power is switched on.

### **Turn on fusion operator badge: Once every day**

This will force the operator to "unlock" the welding unit the first time the unit is powered on each day.

### **Turn off fusion operator badge**

This code will turn off the fusion operator badge

### **Turn off GPS location**

This code will turn off the GPS location information.

### **Turn on GPS location: Latitude & Longitude**

This code will turn on the GPS location information and ask for latitude and longitude.

### **Turn on GPS location: Latitude, Longitude & Depth**

This code will turn on the GPS location information and ask for latitude, longitude and depth.



## **High Power Joules Check ON**

This will turn on joules checking at the start of the weld. Before the start button is pressed, the resistance of the fitting will be measured and a calculation made with the set voltage and set time. This will give an estimated weld energy which is compared to set limits.

## **High Power Joules Check OFF**

This will turn off joules checking at the start of the weld.

## **High Power Joules Check Limits**

This will set the limits for the energy joules checking.

## **High Power Fitting Check ON**

This will turn on resistance checking when the fitting is connected to the output lead. The resistance will be measured and compared to set limits. If the resistance is outside these limits an error will be shown.

## **High Power Fitting Check OFF**

This will turn off resistance checking when the fitting is connected to the output lead.

## **High Power Fitting Check Limits**

This will set the limits for the fitting resistance checking.

