Set-up and program loading for the Denso BHT 5000/6000/7000/8000

Before you start ensure that you have the latest version of the BHT application (a PD3 file), which you can get either from your supplier or BancTec. You will also need a transfer utility to send this to the BHT, which can be TU3, ARTU3 or Winartu3 that you may already have, if not a free download tool TXProg is available from BancTec. For notes on the various transfer utilities and how to set them up please see section 4.

Section 1: New Units
Use these instructions if loading the software onto new units or those that require resetting due to repair or a system error.

BHT5000
1) Initialise the unit
   With the BHT switched off press and hold down the "SF", "0" & Trigger then press Power. This will display the SYSTEM INITIALISE menu, then follow the on-screen instructions to initialise "ALL" drives and "ENGLISH". The unit will then power off once the memory has been reset.

2) Settings
   System Menu
   With the BHT switched off press and hold down the "SF" & "1" then press Power to enter the SYSTEM MENU. Note within this menu system the C key can be used to return to the previous menu.

   Date/Time
   If your application uses the Real Time Clock to date/time stamp the records or events then you will need to reset the clock. (If in doubt set it).
   From the SYSTEM MENU select and enter 4: SET, 3: DATE/TIME now enter the date in the format YY/MM/DD HH:MM. The BS key can be used to delete erroneously entered characters. Once complete press ENT, the new date is accepted and the entry line clear. If the date is not accepted check and re-enter the correct date. (Now press C back to the top menu)

   Resume
   From the SYSTEM MENU select and enter 4: SET, 7: OTHERS now using the F8 cursor keys set RESUME to OFF. (Now press C back to the top menu)

   Comms
   If you are not using a cradle for file transfer you will need to set the communications port.
   From the SYSTEM MENU select and enter 4: SET, 5: COMMS, 3: DEFAULT now using cursor keys (F5-F8) set both settings to CONNECTOR. (Now press C back to the top menu)

   Comms Settings
   The default comms setting are 19200, 8, 1, None; which match the defaults of the transmit program. If you know that you are using a non-standard setting on the PC then this will need to be reflected on the BHT. From the SYSTEM MENU select and enter 4: SET, 5: COMMS now either 1:OPTICAL or 2:CONNECTOR then set the parameters that need changing. (Now press C back to the top menu)

3) Download Program
   PC. Ensure that the transfer utility has been set to send the correct PD3 file at the correct port settings.
   BHT. From system menu select and enter 2: DOWNLOAD then 2: DRIVE B:
   Now active the PC comms software and the program file will be transferred. If not please check the connections to the PC, power on the cradle (if used), any special comms settings used, etc.

4) Execute Program
   Once the transfer is complete, from the SYSTEM MENU select and enter 4:SET SYSTEM then 1:EXECUTE PROGRAM now select the PD3 application required using cursor keys and then power the unit off then on again. This will now run the loaded application, if not please check that the Execute Program option was selected from the SET MENU and not from the SYSTEM MENU.
   Depending on your license agreement you may need to contact BancTec for a password.

BHT6000

1) Initialise the unit
   With the BHT switched off press and hold down the "SF", "0" & "M1" then press Power. This will display the SYSTEM INITIALISE menu, then follow the on-screen instructions to initialise "ALL" drives and in "ENGLISH". The unit will then power off once the memory has been reset.

2) Settings
   System Menu
   With the BHT switched off press and hold down the "SF" & "1" then press Power to enter the SYSTEM MENU. Note within this menu system the C key can be used to return to the previous menu.

   Date/Time
   If your application uses the Real Time Clock to date/time stamp the records or events then you will need to reset the clock. (If in doubt set it).
   From the SYSTEM MENU select and enter 4:SET SYSTEM, 3: DATE/TIME now enter the date in the format YY/MM/DD HH:MM. The BS key can be used to delete erroneously entered characters. Once complete press ENT, the new date is accepted and the entry line clear. If the date is not accepted check and re-enter the correct date. (Now press C back to the top menu)

   Resume
   From the SYSTEM MENU select and enter 4:SET SYSTEM, 5: RESUME then 2:OFF. (Now press C back to the top menu)

   Comms
   If you are not using a cradle for file transfer you will need to set the communications port.
   From the SYSTEM MENU select and enter 4: SET SYSTEM, 6: COM, 3: COM PORT now using cursor keys (F5-F8) set both settings to IFC. (Now press C back to the top menu)

   Comms Settings
   The default comms setting are "19200, 8, 1, None"; which match the defaults of the transmit program. If you know that you are using a non-standard setting on the PC then this will need to be reflected on the BHT. From the SYSTEM MENU select and enter 4: SET SYSTEM, 6: COM now either 1:OPTICAL or 2:CONNECTOR then set the parameters that need changing. (Now press C back to the top menu)
   If using the CU6000 cradle you will also need to ensure the Dip Switch settings also match the selected comms speed, and you may only use 8, 1, None as the parameters.

3) Download Program
   PC. Ensure that the transfer utility has been set to send the correct PD3 file at the correct port settings.
   BHT. From system menu select and enter 2: DOWNLOAD then 2: DRIVE B:
   Now active the PC comms software and the program file will be transferred. If not please check the connections to the PC, power on the cradle (if used), any special comms settings used, etc.

4) Execute Program
   Once the transfer is complete, from the SYSTEM MENU select and enter 4:SET SYSTEM then 1:EXECUTE PROGRAM now select the PD3 application required using cursor keys and then power the unit off then on again. This will now run the loaded application, if not please check that the Execute Program option was selected from the SET MENU and not from the SYSTEM MENU.
   Depending on your license agreement you may need to contact BancTec for a password.

BHT7000/8000

1) Initialise the unit
   With the BHT switched off press and hold down the "SF", "0" & "M1" then press Power. This will display the SYSTEM INITIALISE menu, then follow the on-screen instructions to initialise and in "ENGLISH". The unit will then power off once the memory has been reset.

2) Settings
   Settings System Menu
   With the BHT switched off press and hold down the "SF" & "1" then press Power to enter the SYSTEM MENU. Note within this menu system the C key can be used to return to the previous menu.

   Date/Time
   If your application uses the Real Time Clock to date/time stamp the records or events then you will need to reset the clock. (If in doubt set it).
   From the SYSTEM MENU select and enter 4:SET SYSTEM, 3: DATE/TIME now enter the date in the format YY/MM/DD HH:MM. The BS key can be used to delete erroneously entered characters. Once complete press ENT, the new date is accepted and the entry line clear. If the date is not accepted check and re-enter the correct date. (Now press C back to the top menu)

   Resume
   From the SYSTEM MENU select and enter 4:SET SYSTEM, 7: RESUME then 2:OFF. (Now press C back to the top menu)

   Comms
   If you are not using a cradle for file transfer you will need to set the communications port.
   From the SYSTEM MENU select and enter 4:SET SYSTEM, 5: COMMUNICATION, 3: COM PORT now using cursor keys (F5-F8) set both settings to CONNECTOR. (Now press C back to the top menu)

   Protocol
   From the SYSTEM MENU select and enter 4:SET SYSTEM, 5: COMMUNICATION, 4: PROTOCOL now select 1:BHT Protocol. (Now press C back to the top menu)

   Comms Settings
   The default comms setting are 19200, 8, 1, None; which match the defaults of the transmit program. If you know that you are using a non-standard setting on the PC then this will need to be reflected on the BHT. From the SYSTEM MENU select and enter 4:SET SYSTEM, 5: COMMUNICATION now either 1:OPTICAL or 2:CONNECTOR then set the parameters that need changing. (Now press C back to the top menu)
   If using the CU6000 cradle you will also need to ensure the Dip Switch settings also match the selected comms speed, and you may only use 8, 1, None as the parameters.

3) Download Program
   PC. Ensure that the transfer utility has been set to send the correct PD3 file at the correct port settings.
   BHT. From system menu select and enter 2: DOWNLOAD then 1: FILE
   Now active the PC comms software and the program file will be transferred. If not please check the connections to the PC, power on the cradle (if used), any special comms settings used, etc.

4) Execute Program
   Once the transfer is complete, from the SYSTEM MENU select and enter 4:SET SYSTEM then 1:EXECUTE PROGRAM now select the PD3 application required using cursor keys and then power the unit off then on again. This will now run the loaded application, if not please check that the Execute Program option was selected from the SET MENU and not from the SYSTEM MENU.
   Depending on your license agreement you may need to contact BancTec for a password.

Section 2: Program Upgrade

When loading a new version of the application all of the settings should be correct and so the unit will not need to be initialised unless you are instructed to do so, in which case follow the instructions above as if for a new unit. Otherwise follow these instructions to load a new program.

1) Check Settings.
   System Menu
   With the BHT switched off press and hold down the "SF" & "1" then press Power to enter the SYSTEM MENU. Note within this menu system the C key can be used to return to the previous menu.

   Comms
   In order to download the new program you need to identify the current comms settings.
   From the SYSTEM MENU select and enter 4: SET SYSTEM, 5:COMMUNICATION (or 6:COM on BHT6000), now check the connection method by selecting 3: COM PORT. This should be set to IFC or Connector if you are using the cable, Otherwise OPT or Optical if you are using a cradle or Jeteye. If these settings are not correct use the cursor keys (F5-F8) to adjust them. Now press C to return to the SET COM Menu and select either OPTICAL or CONNECTOR depending on the connection used. Now check/note the settings as these will be required to match the program used to send the new application.

2) Download Program
   PC. Ensure that the transfer utility has been set to send the new PD3 file at the correct port settings (as per BHT).
   BHT. From system menu select and enter 2: DOWNLOAD then 2: DRIVE B: (or 2: FILE on BHT7/8000). Now active the PC comms software and the program file will be transferred. If not please check the connections to the PC, power on the cradle (if used), any special comms settings used, etc.

3) Execute Program
   Unless the name of the application has changed you can now power the unit off then on again. This will now run the new version of the program, depending on your license agreement you may need to contact BancTec for a password.
   If the name of the application has changed you will need to set it to be the default program, follow the Execute Program instructions in Section 1.

Section 3: Error Drive A

On the BHT5000 and 6000 if flat batteries have been left in the unit or it has been left for some time uncharged the user may get a "System Error, Note the error Drive A" message. This means that the unit needs its RAM (Drive A:) reformatting, however you may not have lost the application which is normally loaded to Drive B: This can be done by following the above instructions for the BHT5/6000 with the following changes …

1) Initialise the unit, **BUT ONLY DRIVE A:**
2) As above
3) Ignore
4) As above, except you should not be asked for a password.

Section 4: Transfer Utilities

To download the new program to the BHT various transfer utilities can be used, they all communicate to the unit using the protocol but setting them up is slightly different.

TU3 or ARTU3
These two DOS program are set-up the same, from a DOS prompt enter the following

TU3 path\filename.pd3 +P0 +B19200

Where
path\filename.pd3 is the path and filename of the BHT application
+P0 is the PC com port, +P0 = COM1, +P1=COM2 etc…
+B19200 is the transfer baud rate (default 19200); you only need to change this if you have changed the speed on the BHT, eg +B38400 or +B9600

WINARTU3
This windows program is run from shortcuts to the Winartu3.exe application. To send a program create a new shortcut to the application, then edit the properties of the shortcut.
In the Target box will be the program path "C:\program files\winartu3\winartu3.exe" move the cursor to the end of this line and add the PD3 filename, port and speed settings as per the DOS utilities above.
e.g.

"C:\program files\winartu3\winartu3.exe" path\filename.pd3 +P0 +B19200

TXProg
Unlike the other transfer utilities that can be used to send and receive data files as well as the BHT programs this windows application is designed to only transfer BHT programs. Run the application then using the simple buttons select the PD3 file to transfer, the COM port and transfer speed, then press the Send button.

Section 6: Transfer Error

If after following the instructions you are having difficulties transferring the program please check the following.
Cradle
    The baud rate setting on the PC software is the same as the Optical parameters on the BHT.
    If using the BHT6/7/8000 cradle check the dip-switches are set to the correct baud rate.
    The cradle is powered on and the communication cable is correctly connected and both ends and the PC software is set to the correct port no.
    If using the BHT7/8000 check the protocol type is set to BHT-Protocol

Cable
    The baud rate setting on the PC software is the same as the Connector/IFC parameters on the BHT.
    The communication cable is correctly connected and both ends and the PC software is set to the correct port no.
    If using the BHT7/8000 check the protocol type is set to BHT-Protocol

If you are still having problems please contact you supplier or BancTec.

Section 7: No Execute Program Error

If after successfully loading the program a "No Execute Program" error message is displayed retry the Execute Program section in the instructions above ensuring that you select the EXECUTE PROGRAM option within the SET menu and not at the SYSTEM menu.

Section 8: JIS Japanese Fonts

The BHT5000 and 6000 the come with 2 large font files (125k each) installed, which are typically not required in the UK and can cause memory problems if you are trying to download large lookups onto Drive B: of the BHT. To delete these follow the instructions below.

System Menu

With the BHT switched off press and hold down the "SF" & "1" then press Power to enter the SYSTEM MENU. Note within this menu system the C key can be used to return to the previous menu.

JIS Font

Press "SF" & "2" to display the JIS1 / JIS2 menu then select 1:DELETE and enter, now select 1:JIS 1 and enter, then confirm to delete the font. Now press the C key to return to the DELETE menu and repeat the process for 2: JIS 2. This operation will have freed 256k of memory in Drive B: