

# Replacement MC Toolkit Installation on MCT101

## Document

Form: 34-ST-33-58  
Effective: 02/14  
Supersedes:: 07/12

## Summary

This instruction is to aid you in the installation of a replacement MC Toolkit on MCT101.

This document has instructions for 3 Installations:

1. Installing the SD Memory Card (50036088-501)
2. MC Toolkit Installation : Instructions for upgrading the MCT101 to MC Toolkit latest Release
3. Adding any specific HART DD to the HandHeld: Instructions for adding any specific DD file to MC Toolkit Release version 4.1 and above. This requires that Item 1 and 2 are already installed.
4. Upgrading the HART DD Library

## MC Toolkit Replacement Kit (Part number 50020492)

Your replacement kit should contain the following items listed in table 1

**Table 1 Kit Components**

| <b>PART NO.</b> | <b>DESCRIPTION</b>   |
|-----------------|--|
| 34-ST-25-20     | MC Toolkit User Manual   |
| 34-ST-33-58     | MC Toolkit Replacemen Kit Instructions (this document)   |
| 34-ST-25-33     | MC Toolkit Modem Code Download Instruction Sheet   |
| 51453286-501    | MC Toolkit CD ROM  |
| 50036088-501    | SECURE DIGITAL (SD) MEMORY CARD (with the latest HART Communication Foundation DD files). Applicable to MCT101 only. |

## Installing the Replacement MC Toolkit

To install the new MC Toolkit, follow the steps in Table 2. There are 2 parts to the Installation:

- Installing the SD Memory Card (50036088-501) to the PDA
  - Installing the MC Toolkit software components from the CD ROM (51453286-501) to the PDA
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## Pre-requisites:

### Active Sync/Mobile Device Center

ActiveSync Version 4.1 or above (Windows XP Users) / Windows Mobile Device Center 6.1 (Vista/ Windows 7 Users) – Free software downloads from Microsoft web site

OS Version:

Windows Mobile Version 5.0 on the MCT101. Verify this by selecting Start/Setting/System/About on the MCT101

The qualified MCT101 PDA Models are HP iPAQ hx2490b and hx2490c. Verify this by selecting Start/Settings/System/HP Asset Viewer

SD Card: At least 1GB memory on the MCT101.

## Installing the SD Card

Instructions:

- On the MCT101, Select Start/Settings/System/Memory/Remove Programs
- Remove all the previously installed programs listed below one by one by selecting the item and clicking the “Remove” option
  - a. Honeywell MC Toolkit
  - b. Honeywell CFG\_MCT
  - c. Honeywell FDC
  - d. Honeywell SDC
  - e. Honeywell ModemCodeDownload
- Remove the old SD Card from the MCT101
- Insert Loaded SD Card into the Host PDA. Select Start\File Explorer\My Device and locate the **SD Card** folder. If it does not show up within 15-20 seconds after loading the SD Card, Soft Reset the PDA again.

## MC Toolkit Installation

Instructions:

- On the MCT202 HandHeld, Select Start/Settings/System/Memory/Remove Programs
- Remove all the previously installed programs listed below one by one by selecting the item and clicking the “Remove” option
  - a. Honeywell MC Toolkit
  - b. Honeywell CFG\_MCT
  - c. Honeywell FDC
  - d. Honeywell SDC
  - e. Honeywell ModemCodeDownload
- On the desktop PC, remove previously installed “MC Toolkit” and “ModemCodeDownload” programs

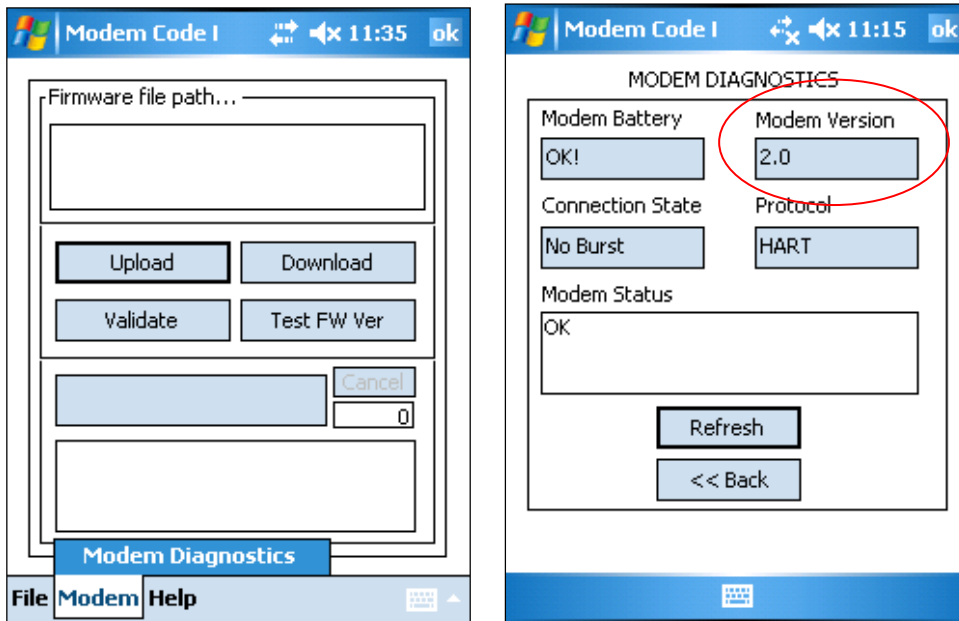
- Steps to remove the programs “MC Toolkit” and “ModemCodeDownload”:
  - a. Windows XP:
    - i. Select Start/Settings/Control Panel/Add Remove Programs
    - ii. Select the program to be removed (MC Toolkit /ModemCodeDownload)
    - iii. Select Change/Remove
    - iv. On the "Welcome Dialog" select "Remove", hit Next.
    - v. Click Yes on "Do you want to completely remove..." prompt.
  - b. Windows Vista / Windows 7
    - i. Select Start/Control Panel/UnInstall a Program
    - ii. Select the program to be removed (MC Toolkit /ModemCodeDownload)
    - iii. Select UnInstall / Change
    - iv. On the "Welcome Dialog" select "Remove", hit Next.
    - v. Click Yes on "Do you want to completely remove..." prompt.
- Now, install the new Setup:
- Setup Active Sync connection between your PC and HandHeld
- When the connection is established, Run the MCToolkitSetup.exe file under C:\MCT\MCT202\_Install folder
- It will launch 3 Installations: MC Toolkit, ModemCodeDownload and .NetCompact Framework.
- MC Toolkit Setup launches first on the PC. Go through the prompts on the Installation screens.
- On the “Please check your mobile device screen to see if additional steps are necessary...” screen, select ok.
- Check the HandHeld screen for the following 3 prompts and select “SD Card” as the installation location
  - a. “Choose a location to Install Honeywell CFG\_MCT...”
  - b. “Choose a location to Install Honeywell FDC...”.
  - c. “Choose a location to Install Honeywell MC Toolkit...”.
- Wait until you see the message “Honeywell MC Toolkit.CAB was successfully installed on your device”. Select OK.
- Select Finish on the InstallShield Wizard Complete screen on the PC. Continue with the next steps.
- Wait until MC Toolkit ModemCodeDownload Setup launches next on the PC. Go through the prompts on the Installation screens.
- On the “Please check your mobile device screen to see if additional steps are necessary...” screen, select ok. Continue with the next steps.

- Check the HandHeld screen for the following prompt and select “SD Card” as the installation location
  - a. “Choose a location to Install Honeywell ModemCodeDownload...”.
- Wait until you see the message “Honeywell ModemCodeDownload.CAB was successfully installed on your device”. Select OK
- Select Finish on the InstallShield Wizard Complete screen on the PC. Continue with the next steps.
- Wait until Microsoft .Net compact Framework 3.5 Setup launches next on the PC. Go through the prompts on the Installation screens. Select “Complete” option on the “Setup Type” screen.
- On the “Please check your mobile device screen to see if additional steps are necessary...” screen, select ok. Continue with the next steps.
- Check the HandHeld screen for the following prompt. Select “SD Card” as the installation location
  - a. “Choose a location to Install .Net Compact Framework 3.5...”.
- Wait until you see the message “You must restart the device to complete installation...”
- Select OK. This will reboot your HandHeld.
- Select Finish on the InstallShield Wizard Complete screen on the PC.
- This completes the Installation of MC Toolkit. The installation creates 3 icons at the Start Menu or Start/Programs menu on the HandHeld
  - a. FDC
  - b. MCToolkit
  - c. ModemCodeDownload
- Before you can use the MC Toolkit, make sure the Modem firmware version is 2.0 (you need Modem firmware version 2.0 and above to use with MC Toolkit Release 4.0 and above). Follow the “**Checking the Modem Firmware version**” section.

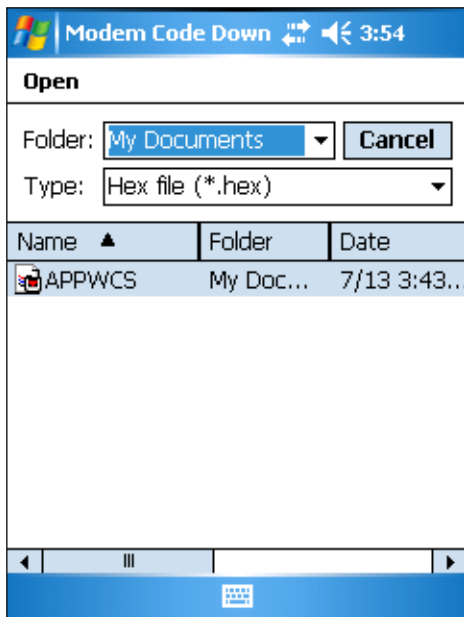
# Checking the Modem Firmware version

## Instructions

- Select Start/Programs/MCToolkitCodeDownload icon on the HandHeld.



- On the Home page, select Modem/Modem Diagnostics
- Check the Modem Firmware. If it is 2.0, exit the application. This completes the Installation. Skip the steps below and go to the section **“HART DD Library Upgrade”**
- If the Modem Firmware version is less than 2.0, upgrade the modem firmware following the steps below
- Press the Download button on the Modem Code Download Home screen. It will open the “Open” dialog box



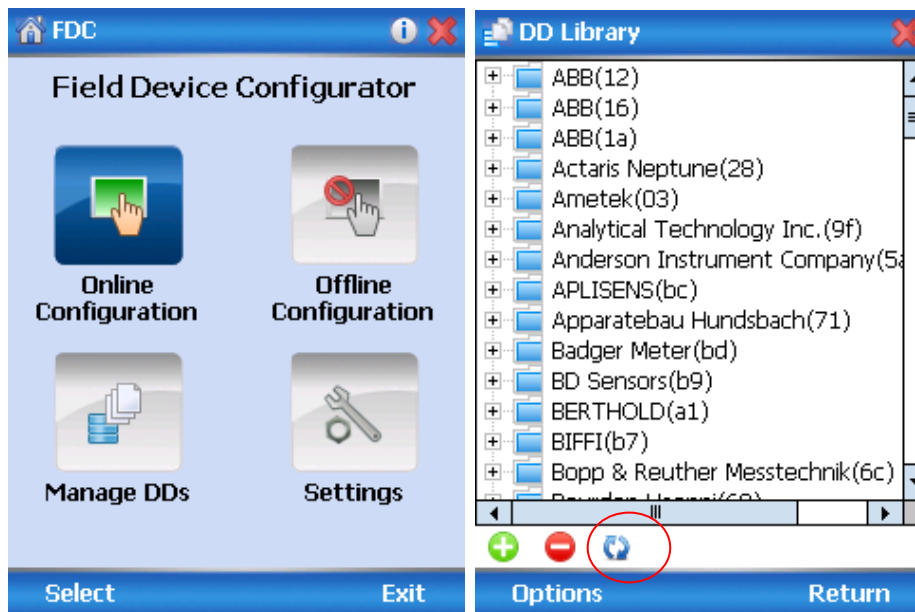
- Select the My documents folder on the Open screen
- Select Type : Hex or Binary. Select the “APPWCS.xxx” file
- On selecting the File, the confirmation screen will be displayed. Select Yes to proceed. The download will start.
- Do not cancel the Download operation as it may leave your modem in unusable state.
- Download Status will be displayed in the end. In older MCT202 units, the download may fail. Check **“Modem Version Compatibility”** section for compatibility details. You can still use the MCT202. But you may run into occasional datalength issues with some complex HART devices. If you choose to use the MCT202 without modem firmware upgrade, follow the **“HART DD Library Upgrade”** section to upgrade the DD Library
- Upon successful download, the user MUST Validate the firmware image just downloaded. This will set the modem to User Mode.
- To Validate, select the “Validate’ Button and wait for the operation to complete. Status message will display the Validation Stage.
- After the successful Validation, check the modem firmware version again to confirm the download by selecting Modem/Modem Diagnostics
- Alternately you can Select “Test FW Ver” button. A messagebox with the version number will be displayed.
- Exit the Application by File/Exit menu.
- Upgrade the HART DD Library by following **“HART DD Library Upgrade”** section.

**Note: The below procedure installs the complete DD Library from the latest Quarterly Release 20xyQz (ex: 2013Q3) DD Library. If you need to add any particular DD file follow the section ” Adding any specific HART DD to HandHeld”.**

## HART DD Library Upgrade:

Instructions:

- Unzip the DD20xyQz\_FDCFiles.zip file from the web download listed in Table 1 to say C:\Hon\_DD folder. This will create C:\Hon\_DD\Library folder with sub-folders and files
- Setup Active Sync connection between your PC and HandHeld
- When the connection is established, HandHeld will show up as “My Computer\Mobile Device\My Windows Mobile-Based Device\” on your PC
- Navigate to My Computer\Mobile Device\My Windows Mobile-Based Device\SD Card\FDC folder. Right click on the “Library” folder in the above path and select delete. This will delete the existing HART Foundation DD Library. Wait until the Delete process is completed.
- Right click on the C:\Hon\_DD\Library folder and select Copy and then navigate to “My Computer\ Mobile Device\My Windows Mobile-Based Device\SD Card\FDC” folder. Right click on FDC folder and select Paste. The entire DD Library will be copied. Wait until the File copy is completed.
- Run the FDC application by selecting Start\FDC
- On the Home page click “Manage DDs” and tap the Select menu

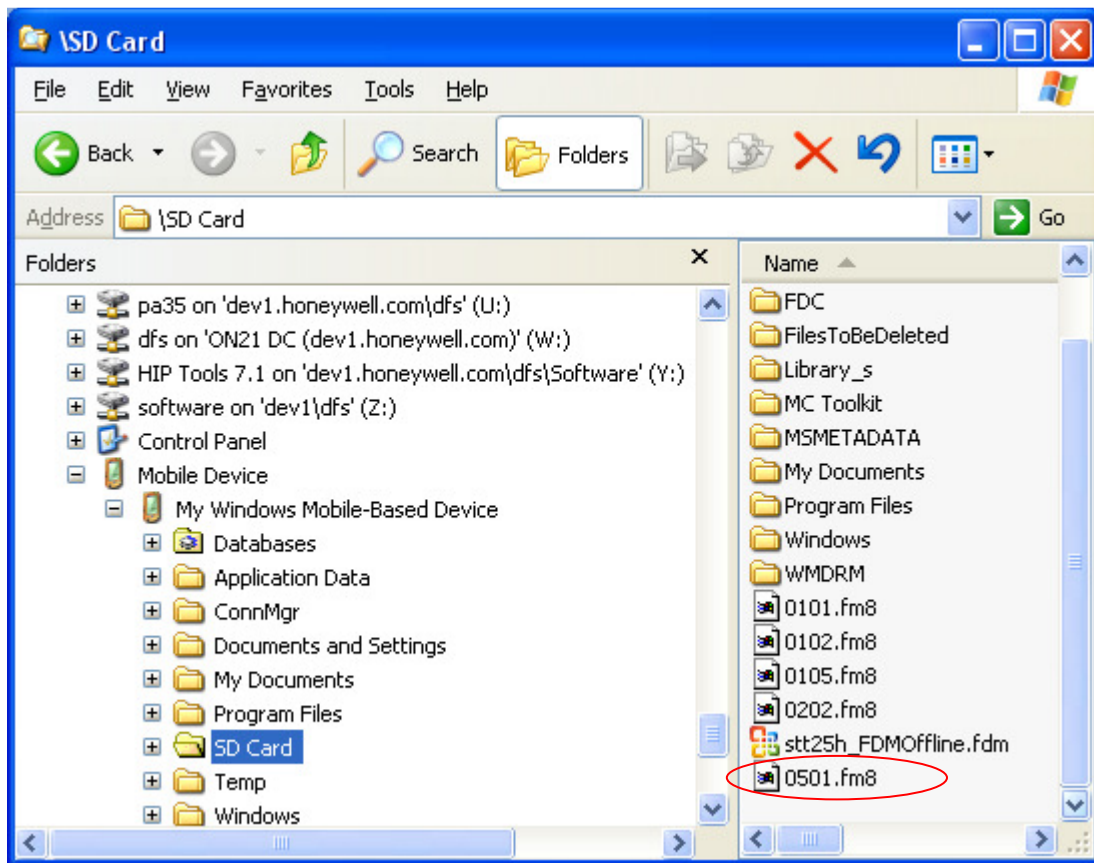


- On the DD Library page select Refresh menu (Green back to back arrows on the icon bar)
- Disconnect the HandHeld from the PC.
- HandHeld is ready to use. Select Online Configuration to connect to the device

## Adding any specific HART DD to HandHeld:

### Instructions

- Setup Active Sync connection between your PC and HandHeld
- When the connection is established, HandHeld will show up as “My Computer\Mobile Device\My Windows Mobile-Based Device\” under “My Computer “on your PC
- Find the \*.fm8 file for your product
- Right click on the \*.fm8 file, select Copy. Navigate to “My Computer\Mobile Device\My Windows Mobile-Based Device\SD Card\” folder. Right click on SD Card folder and select Paste. The DD file will be copied to the SD Card folder.

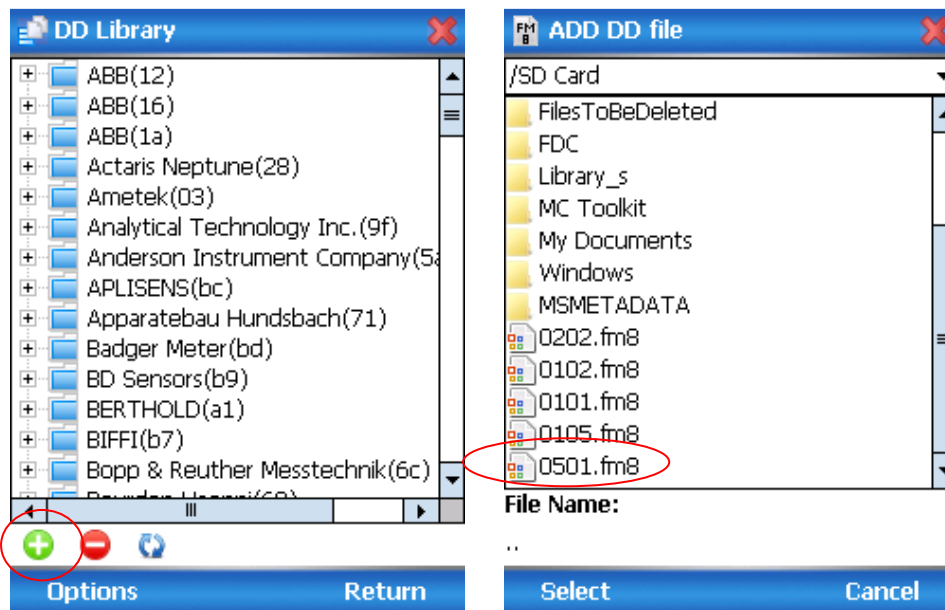


- Disconnect the HandHeld from the PC. Now you have to copy the DD file to the application database within the HandHeld
- Launch the FDC program by selecting Start/FDC icon on the HandHeld. The “Field Device Configurator” home page appears.



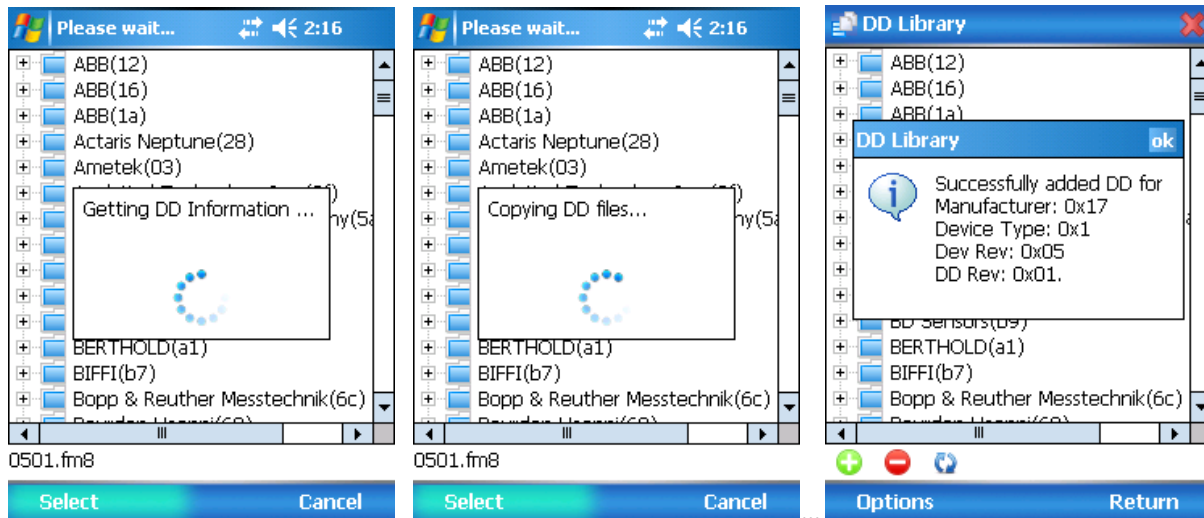


- On the Homepage click Manage DDs and tap Select menu
- DD library with all the Manufacturers will be displayed

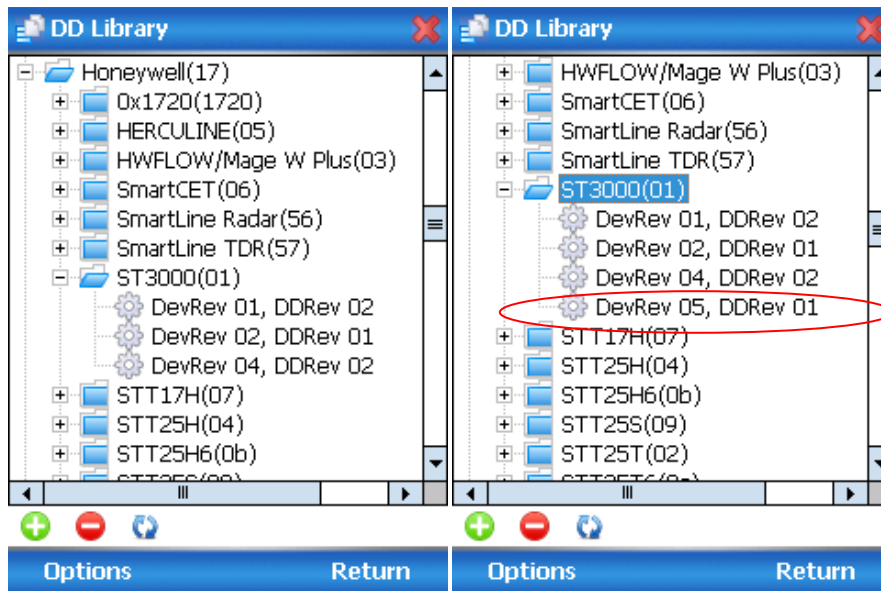


- Select + symbol on the bottom Menu (Green circle with + sign). The ADD DD file page appears
- Select the DD file to be added (0501.fm8 as an example) by navigating to the SD Card, tapping the file and tapping Select menu

- There will be a series of loading messages on the screen. Please wait until the copy process is completed and you get the “Successfully added...” message.



- Now the file is added to the database.



Before File Copy

After File Copy

- HandHeld is ready to use
- Select Online Configuration to connect to the device

## Modem Version Compatibility (MCT202 only):

### Instructions

- If the modem firmware upgrade fails, then check the label on the back (top) of the MCT202 unit to see the field upgrade capability:
- Figure 1 below shows the Label on the back of the MCT202 unit that is field upgradeable.

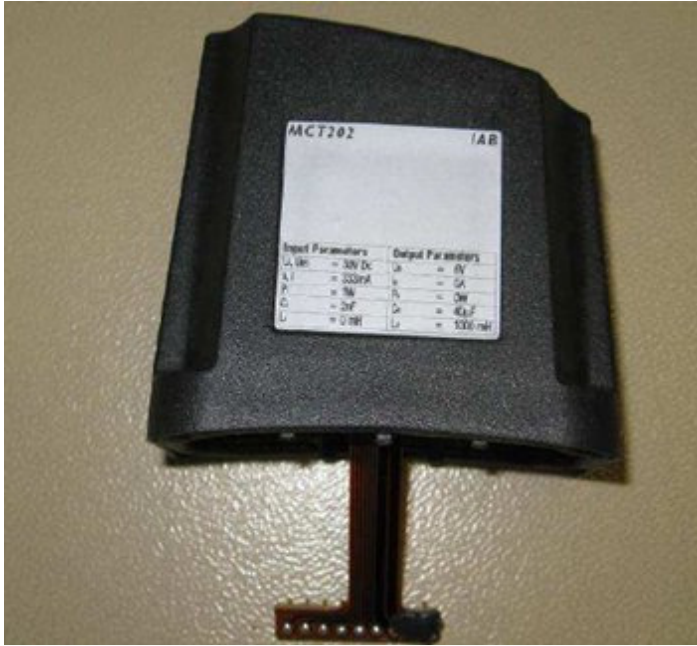


Figure 1

- Figures 2 and Figure 3 below shows the Label on the back of these units which are NOT field upgradeable and you will have to send the MCT202 to the nearest repair ECOM center factory to be upgraded



Figure 2



Figure 3

## Sales and Service

For application assistance, current specifications, pricing, or name of the nearest Authorized Distributor, contact one of the offices below.

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### For more information

To learn more about SmartLine Transmitters,  
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Or contact your Honeywell Account Manager

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