

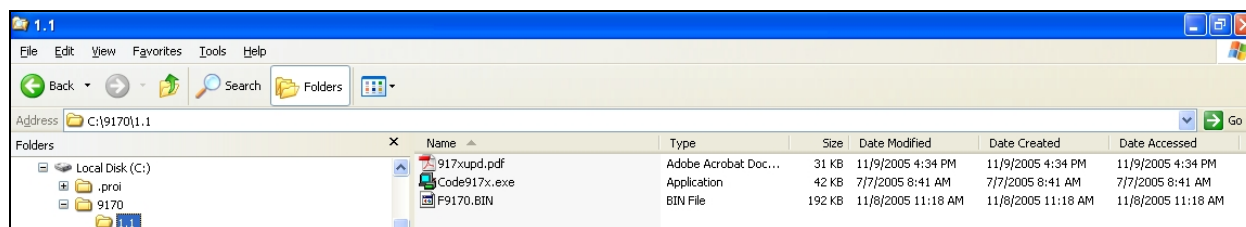
## Self-extracting Zip File Instructions for Embedded Software

**WARNING!** Avoid mixing different model files in same directory. Only one binary file (.bin) per folder is allowed. If various model files or versions are placed in the same directory, upgrade errors may occur or incorrect code will be installed which will cause the instrument to malfunction.

1. Run the self-extracting zip file for the appropriate model. For example for model 1620, run "1620 ver. 1.10.exe". This will extract the software file "P1620.BIN", the transfer utility "CODE917x.EXE", and the update instructions "1620upd.PDF".
2. In the box labeled "Unzip to folder:", enter the file location as "local hard drive\model number\version". Entering the location in this manner will allow the user to easily find the update files on the computer.

**Note:** The following are for example only, as the drive name may be different depending on the system configuration.

- a. "c:\1620\1.10\"
  - b. "c:\1529\1.2\"
  - c. "c:\9170\1.12\"
  - d. "d:\9171\1.10\"
3. Once the "Unzip to folder:" location has been properly entered, click "Unzip". The files in the self-extracting zip file will now be at the location previously entered in "Unzip to folder:".
  4. Navigate to the files on the hard drive, which will be found in the form "local hard drive\model number\version", as described above. An example of what this will look like is shown in Figure 1.



**Figure 1: Explorer view extracted files**

5. A PDF file will be in the folder, which contains the instructions needed to update the instrument's embedded software.

## 1529 Internal Software Update Instructions

**Note:** Follow “Self-extracting Zip File Instructions” before using these instructions.

**Caution!** Insure that all operating parameters are recorded before performing the internal software update. Although it is not typical, some settings might revert to default values when internal code is updated. After running the software update, insure that all operating parameters are correct.

1. The software internal to the Hart Model 1529 can be updated by connecting the unit to a computer through an RS-232 cable and running the 1529 Code Transfer software. This is done as follows.
2. Locate a PC computer with an available RS-232 COM port and operating with Windows XP operating system.
3. Locate a null-modem RS-232 cable and connect the 1529 to the computer (see Section 9.2.1 of the 1529 manual for cable wiring). Note the COM port number to which the cable is connected on the computer.
4. Copy the 1529 Code Transfer software to a convenient directory on the computer (two files: CODE1529.EXE and P1529.BIN).
5. With the power off on the 1529, press and hold the ENTER and EXIT buttons while switching the power on. After the logo screen appears, a new screen will appear with the message, "MISSING CODE, REQUIRES DOWNLOAD".
6. Run CODE1529.EXE. The software will allow you to set the COM port. The default is COM1. If the RS-232 cable is connected to a different COM port, select the appropriate port. Press OK.
7. The new software will be transferred to the 1529 through the RS-232 cable. The status of the transfer process can be observed on the both the computer screen and the 1529 display. When complete the computer screen will show "Code transfer successful" and the 1529 will restart. If the 1529 Code Transfer software displays an error instead then there may be a problem with the RS-232 cable, it may be incorrectly attached to the computer, there may be a problem with the COM port, or the wrong COM port may have been selected.
8. When the 1529 is restarted the first time after new code is installed, a memory error message may appear. Once the memory is automatically reconfigured, no further errors are expected. Check to make sure all calibration parameters and probe parameters are correct before making measurements.