

The main difference is that our version also includes the `float_ascii` function, originally from Microchip, but it has been modified to operate with the 24-bit (three-byte) floating-point values that we're using, rather than the 32-bit (four-byte) values it was initially designed for.

Source code missing floating-point library

I am trying to compile the assembly language source which I downloaded for your Digital Insulation Meter (June 2010; siliconchip.com.au/Article/186) using MPASM but I am getting the following error messages (abbreviated to remove similar messages):

```
Error[113] ..\..\0410610A.ASM
859 : Symbol not previously
defined (FL024)
Error[113] ..\..\0410610A.ASM
864 : Symbol not previously
defined (FPA24)
Error[113] ..\..\0410610A.ASM
875 : Symbol not previously
defined (FPD24)
Error[113] ..\..\0410610A.ASM
889 : Symbol not previously
defined (FPS24)
Error[113] ..\..\0410610A.ASM
962 : Symbol not previously
defined (float_ascii)
Error[113] ..\..\0410610A.ASM
972 : Symbol not previously
defined (FPM24)
Error[105] ..\..\0410610A.
ASM 1120 : Cannot open file
(Include File "FPRF24.TXT"
not found)
```

Are you able to help me so that I can get it to compile? (Sanjeev, Delhi, India)

- We forgot to include the floating-point library (the FPRF24.TXT file mentioned in the last error message) in the download zip for that project. We have now fixed that. This library has been used in several of our PIC-based projects that need to perform mathematical operations on fractional numbers. Place that TXT file in the same directory as the ASM file and the errors about missing symbols should go away too.

By the way, this custom-made library is similar to the file FP24.A16 which is included in the FP.zip download from ME labs at: <https://melabs.com/resources/fp.htm>