**About this software package**

This software package contains the following files:

* ReadMe.docx

*This readme file*

* AN\_355 FT232H I2C USB Power Meter v1\_0

*USB Current meter application source code project.*

* AN\_355 FT232H I2C Basic Demo v1\_0

*Simple VBnet application which demonstrates the use of the FT232H as I2C Master and GPIO interface. This code uses the same I2C functions as the main current meter application, but has a simpler user interface.*

See AN\_355 for details of the applications. Both example applications were developed on Microsoft Visual Basic NET 2013 and should also upgrade if opened in later versions.

**Licensing**

This software package is provided as an example only and without warranty. By using any part of this software and hardware example, the designer of the final product/system hereby agrees to accept full responsibility for ensuring its safe and correct operation and for any consequences resulting from its use. Use of FTDI hardware and software is subject to the licensing terms which can be found at the following page. By using the FTDI drivers, sample code and hardware, you confirm your agreement to these license terms.

<http://www.ftdichip.com/Drivers/FTDriverLicenceTermsSummary.htm>

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**Notes and Warnings (Current Meter Hardware)**

The following notes and warnings should be observed when using the meter hardware:

This unit is not optically isolated and so is not suitable for measurements where the GND of the unit under test may be at a different potential to the ground of the measurement computer.

This unit is designed for a maximum of 16V DC at 1600mA.

The meter may cause a small additional voltage drop in the Vbus line of the connection under test. This is due to the resistance of the additional USB connections when connecting the meter in-line and also due to the sense resistor.

It is recommended to use good quality USB cables which are as short as possible, to minimise resistance in the Vbus line and to minimise the effect of the additional connector resistances on the USB signals. A maximum total of 2m of cabling (e.g. 1m from host to meter and 1m from meter to Device Under Test) is recommended. Some low cost USB cables have very thin conductors which will add significant resistance and voltage drop and these are not recommended.

When using the rear panel connector, the GND pin must *always* be connected to the circuit under test first, before any other pins on the header are connected. This ensures that the meter and the device under test have a common ground level before connecting any signals. Otherwise, differences in ground potential can cause damage to the meter, connected devices or the PC attached to the meter.

Since the measurement circuit is shared between the front and rear ports, only the front *or* the rear connections can be used at any time. Damage could result to the meter and equipment connected if the front and rear ports are both used at the same time.