

Version No: 01 Issue Date: 13/03/2015 Portfolio: Water Quality	Horizons Regional Council	Section No: 9.30 Page: 1 of 2
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WTW firmware upgrade

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Note: It is unusual to need to perform firmware upgrades. We have required this when there was a major change with the ultrasonic cleaning control on a turbidity sensor, and also to try to resolve issues with sensors.

Hardware:

Horizons have one MIQ controller which has a serial port. This is the only device that can upload firmware and manage the WTW sensors.

Software:

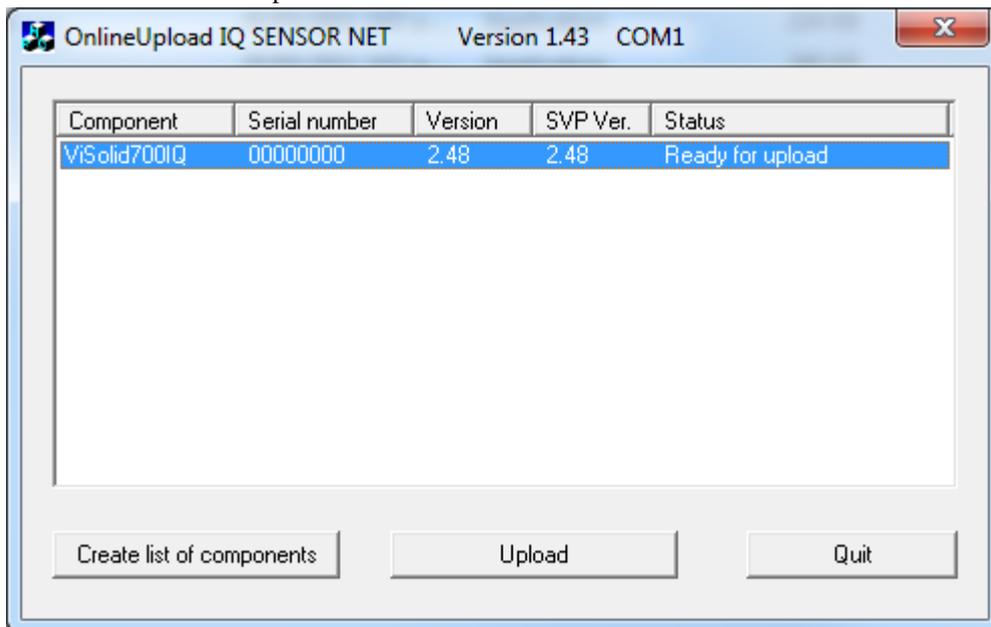
There is a copy in “\\ares\hydrology\Hydrology Sites\General Site Information\Software\Programs\WTW Service Pack”
The directory “25393_IQProdServicePack” needs to be copied to your c:\ to run. It will not work in its current location.

Wiring:

The sensor net ports can be wired to a standard controller or directly to the sensor. If performing firmware update in the field you will need a true sine wave inverter to run this controller.

Check status of all devices (sensors / controllers)

- 1) Run the application: “C:\25393_IQProdServicePack\IQS_UpdatePack_L1\0_OnlineUpdate\OnlineUpload”
- 2) Press “Create list of components”



- 3) Highlight the sensor and press “Upload”
- 4) Select the software (same as for alternative option below):

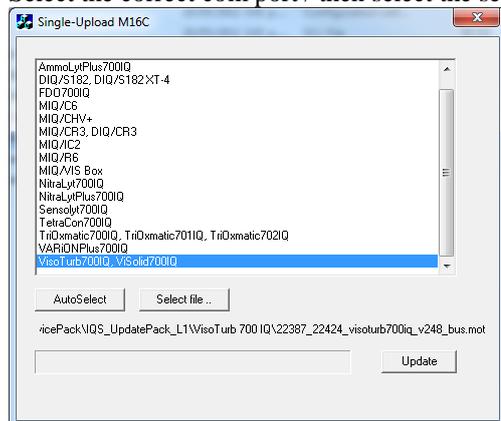
**May need to check with WTW / agent for latest firmware.

WTW firmware upgrade

Alternate method to force firmware to load:

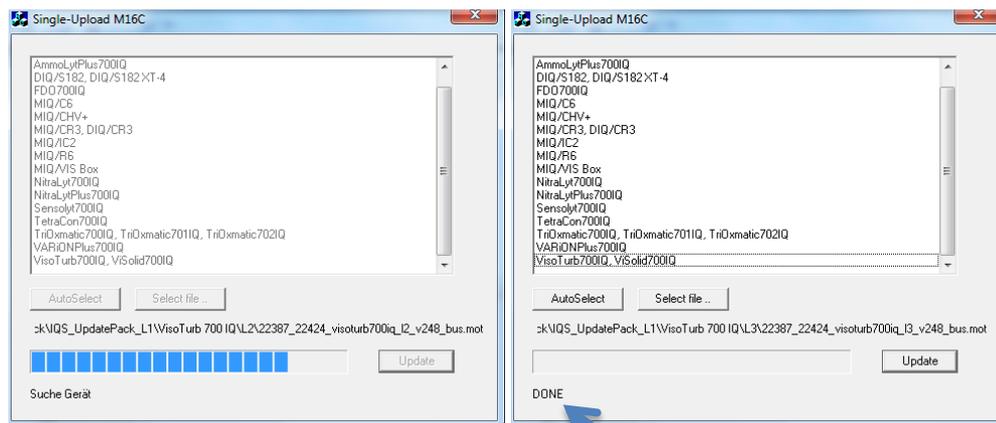
- 1) Connect the failed sensor to the MIQ controller. And power up.
- 2) Connect your computer to the MIQ controller
- 3) Open this directory “C:\25393_IQProdServicePack\IQS_UpdatePack_L1\0_OnlineUpdate\”
- 4) Run “SingleUploadM16C” application

Select the correct com port / then select the sensor:



Can try the Auto select firmware option, or choose the firmware manually.

- 5) Select file from “C:\25393_IQProdServicePack\IQS_UpdatePack_L1\”
- 6) Eg turbidity: “C:\25393_IQProdServicePack\IQS_UpdatePack_L1\VisoTurb 700 IQ\L3\22387_22424_visoturb700iq_l3_v248_bus.mot”
- 7) Select the device to update:



Sensor should be working with new firmware. If not refer to service agent.