Horizons Regional Council

Hydrology Operations Manual

Operations Manual table of contents

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WTW firmware upgrade

regional council

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 to wired to a standard controller or directly to the sensor. If perfoming 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"

ConlineUpload IQ SENSOR NET Version 1.43 COM1					
	,	,			
Component	Serial number	Version	SVP Ver.	Status	
ViSolid700IQ	0000000	2.48	2.48	Ready for upload	
Consta Battafaan			_1	1 0.	
	iiponents	0	pioad		

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.



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:

Single-Upload M16C	×			
ArmaLytPlus70010 DIQ/5182, DIQ/5182 XT-4 FD070010 MIQ/263 MIQ/263, DIQ/263 MIQ/264 MIQ/264 MIQ/765 MIQ/766 MIQ/766 MIQ/766 MIQ/766 Sensoly/7000 Sensoly/7000 Sensoly/7000 TetaCon/7000 TetaCon/7000 TetaCon/7000 TetaCon/7000 TetaCon/7000 TetaCon/7000 TetaCon/7000 TetaCon/7000	E			
VisoTurb7001Q, ViSolid7001Q	- -			
AutoSelect Select Tile				

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_13_v248_bus.mot"
- 7) Select the device to update:

Single-Upload M16C	×	Single-Upload M16C
AmnoLytPlus7001Q DIQ/S182_DIQ/S182_XT-4 FD07001Q MIQ/C6 MIQ/CR3_DIQ/CR3 MIQ/CR3_DIQ/CR3 MIQ/R6 MIQ/R6 MIQ/R6 MIQ/R6 MIQ/R6 Nitral.yt7001Q Sensoly70001Q TetrsCorr2001Q Ti0/smatic/2001Q YisoTub/2001Q, V/Solid7001Q	E	AmmoLyPlus700Q ∩ D10/X5182.010/X5182XT-4 ∩ FD0700Q ∩ M10/C6 M10/C6 M10/CFHv+ M10/C6 M10/CFHv M10/C6 M10/CFHv M10/C6 M10/CFHv M10/C6 M10/CFHv M10/C6 M10/CFHv M10/C6 M10/CFG M10/C10 Tels Sensoly/700Q Tels Tels/C07001Q Tels Tels/C07001Q Tels VAB/00FWx7001Q Viso1ub7001Q Viso1ub7001Q, Vi6olid/7001Q ▼
AutoSelect Select file		AutoSelect Select file
:k\lQS_UpdatePack_L1\VisoTurb 700 IQ\L2\22387_22424_visotur	b700iq_12_v248_bus.mot	:k\IQS_UpdatePack_L1\VisoTurb 700 IQ\L3\22387_22424_visoturb700iq_I3_v248_bus.mot
	Update	Update
Suche Gerät		DONE

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