





Fuel handling

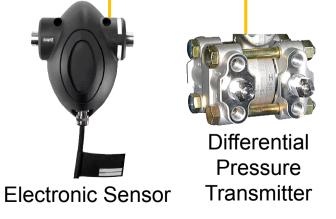


Filtration into-plane is carried out by a Filter/ Water Separator (FWS) or a Monitor Filter. Before the fuel is delivered into-plane, JETGARD monitors the fuel with regard to free water and particulate matter, while also measuring the differential pressure in the FWS or Monitor Filter. All the information obtained is stored locally in the iHLogger.

If the parameters measured are above the specified requirements an alarm signal is emitted stopping the fuelling operation by operating the deadman circuit.

The system is in compliance with API/EI 1598

guides.



Filter Water Separator or Monitor Filter



Storage terminals



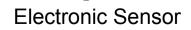
Jetgard monitors the fuel going into the storage terminals throughout fuel pipelines or other means.

The electronic sensor is located at the entry of the storage terminal and monitors the incoming fuel with regard to free water and particulate matter.

All the information obtained is stored locally in the iHLogger.

The system may be powered by a solar panel.







Fuel pump stations



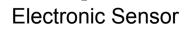
Jetgard monitors the fuel supplied throughout hydrant systems or fuel pipelines.

The electronic sensor is located at the entry of the hydrant system or fuel pipeline and monitors the fuel with regard to free water and particulate matter.

All the information obtained is stored locally in the iHLogger.

The system may be also powered by a solar panel.







Transmission of the information to the base station







All the information stored at the iHLogger and located either at the refuelling unit, entry of storage terminals or pump stations that supplies the hydrant system or fuel pipelines, is transferred via radio waves to the iRouter, which is installed at the associated company's facilities and connected to the Internet.





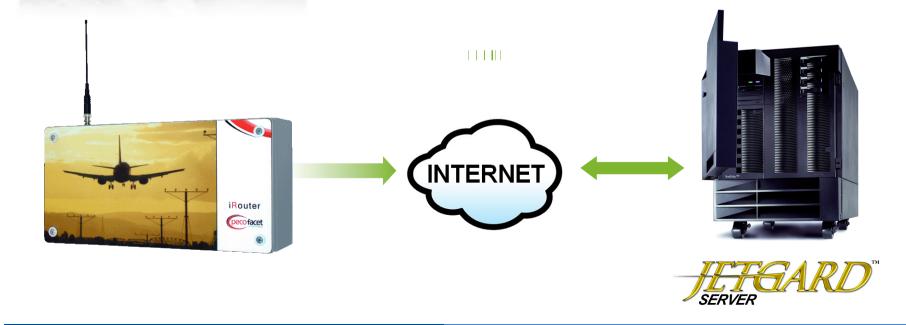




Transmission of Information to the Server



The data received by each iRouter from the iHLoggers related to it are transmitted to the Central Server via the Internet All the information is stored indefinitely for each associated company.





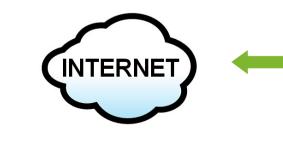
Access to the information, graphs and reports



All the information is stored in a Central Data Warehouse Server. Each company has exclusive and restricted access with the possibility to download their own reports via Internet through the web site: <u>www.jetgard.com</u> When the quality of the fuel does not meet the standard, JETGARD sends an alarm by:



- e-mail
- sms
- warning
- stopping the fuelling operation







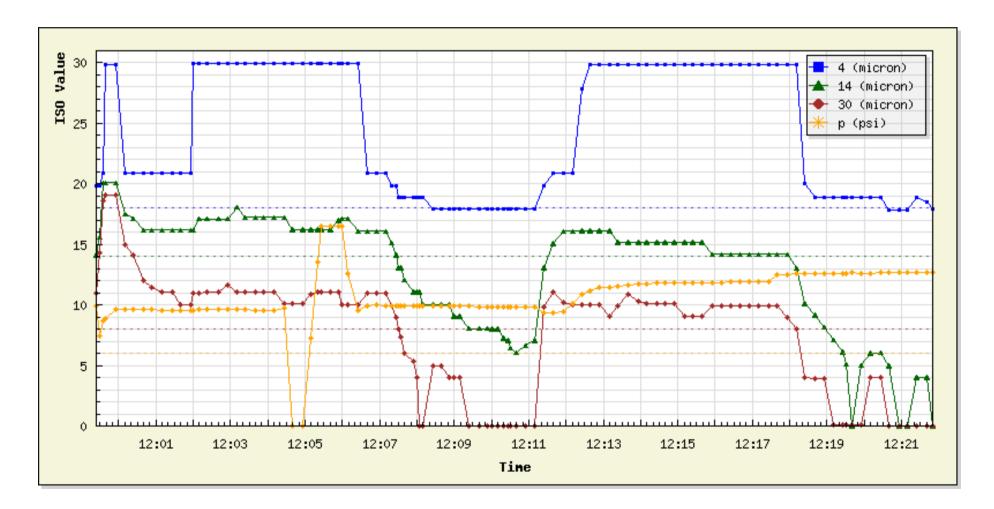


Graphs and reports





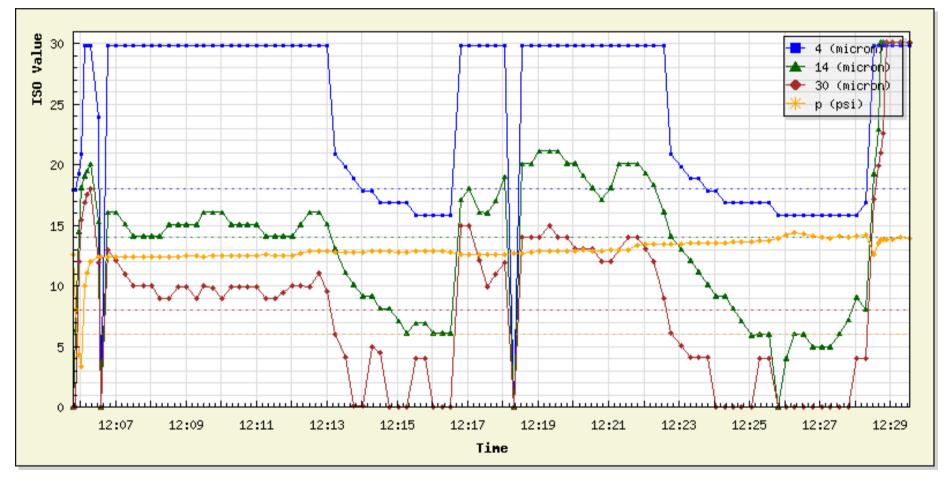
TEST 14 Feb 2008





TEST 14 Feb 2008

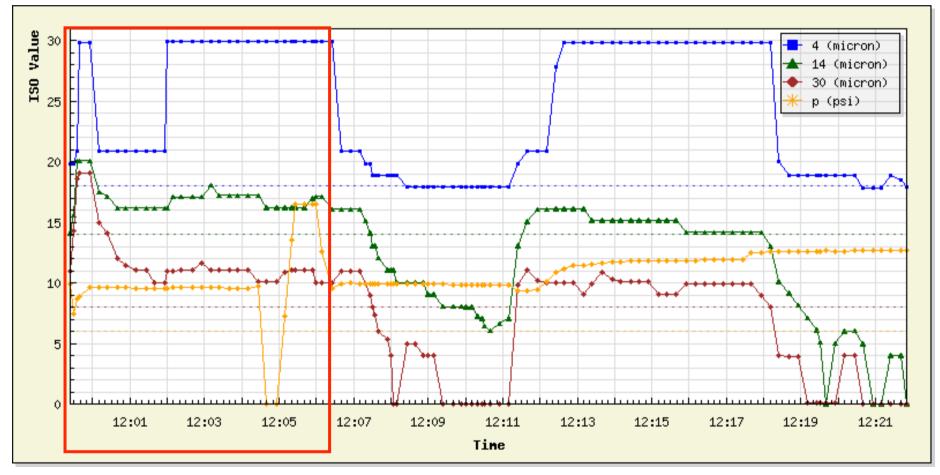
Continued





TEST 14 Feb 2008

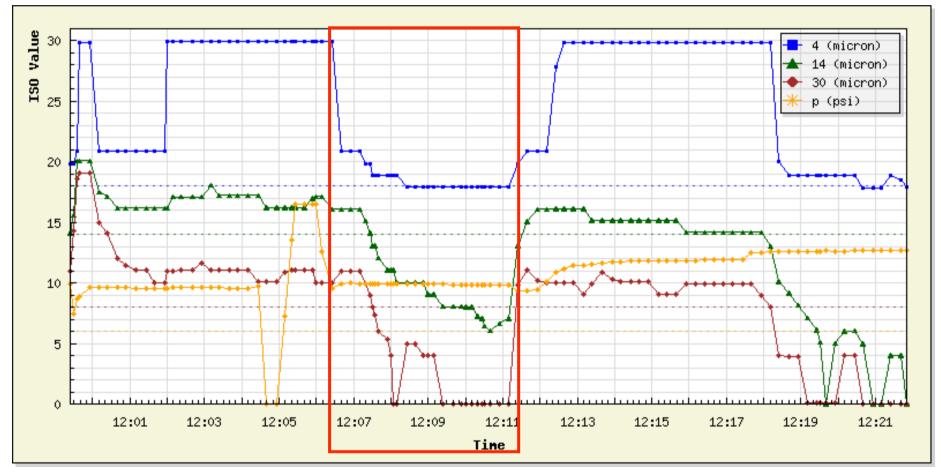
Jet Fuel Test Rig - Sample point at the Inlet of the Filter/Water Separator





TEST 14 Feb 2008

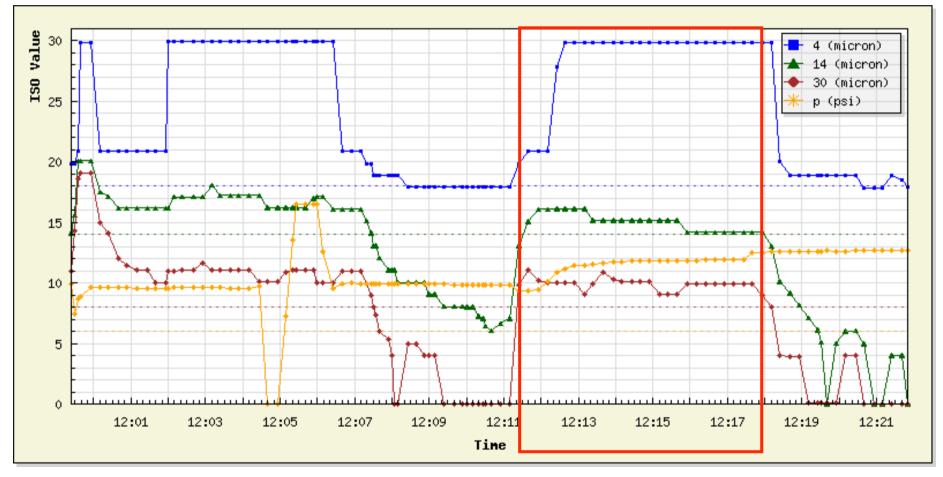
Jet Fuel Test Rig - Sample point at the Outlet of the Filter/Water Separator





TEST 14 Feb 2008

Sample point at the Intlet of the Filter/Water Separator

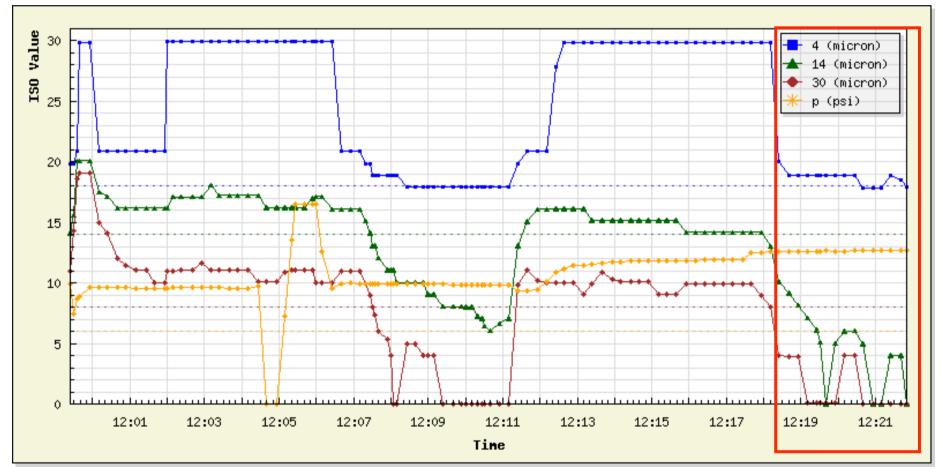


Addition of solids according to API/EI 1581 5th Edition



TEST 14 Feb 2008

Sample point at the Outlet of the Filter/Water Separator

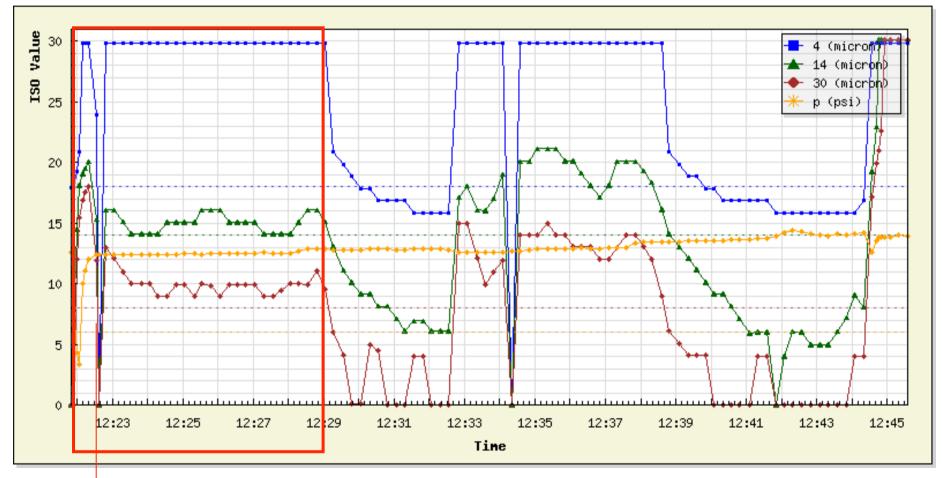


Addition of solids according to API/EI 1581 5th Edition



TEST 14 Feb 2008

Sample point at the Inlet of the Filter/Water Separator



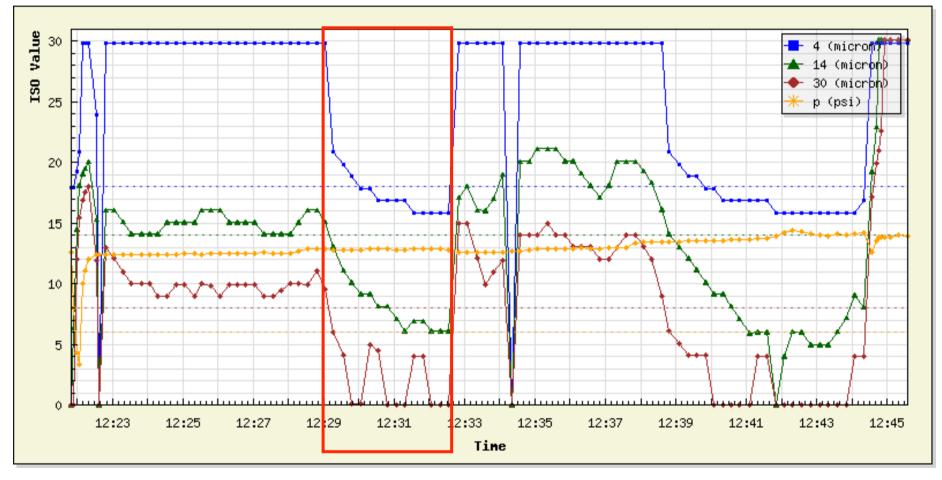
Addition of solids according to API/EI 1581 5th Edition + 10 ppm of water aprox.

Flow stopped caused when activating the flow switch



TEST 14 Feb 2008

Sample point at the Outlet of the Filter/Water Separator

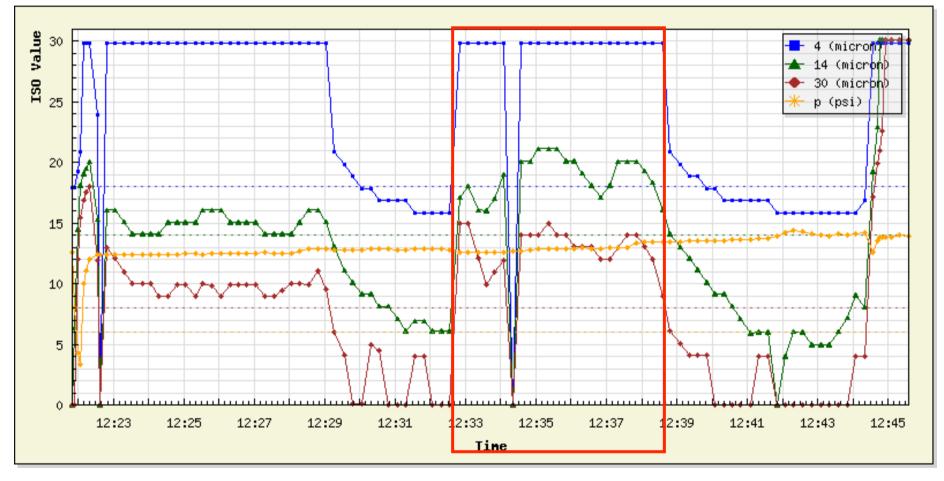


Addition of solids according to API/EI 1581 5th Edition + 10 ppm of water aprox.



TEST 14 Feb 2008

Sample point at the Inlet of the Filter/Water Separator

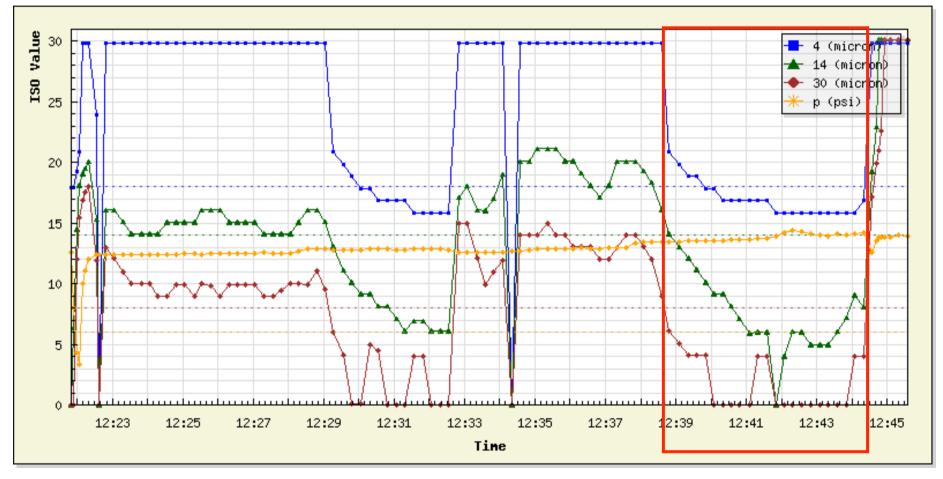


Addition of solids according to API/EI 1581 5th Edition + 150 ppm of water aprox.



TEST 14 Feb 2008

Sample point at the Outlet of the Filter/Water Separator



Addition of solids according to API/EI 1581 5th Edition + 150 ppm of water aprox.



Flow Diagram (I)



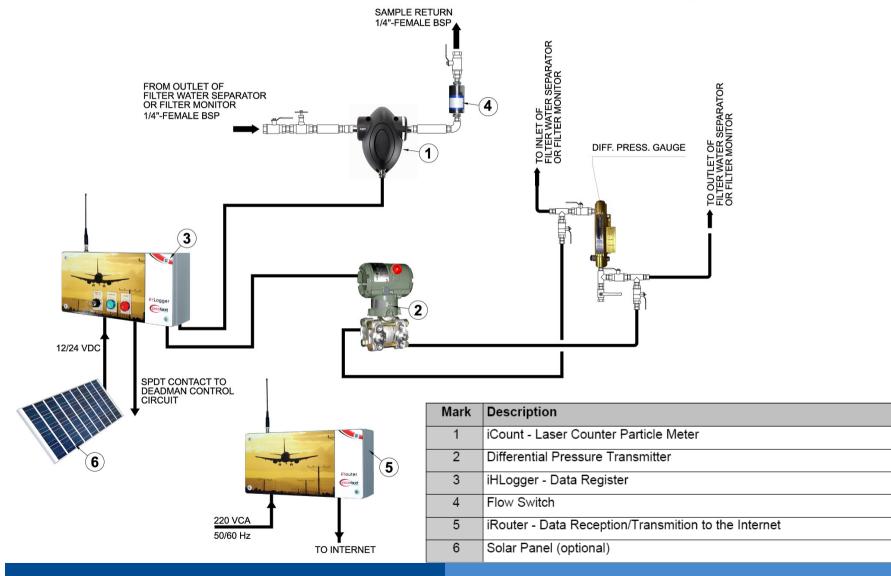


Flow Diagram (II)



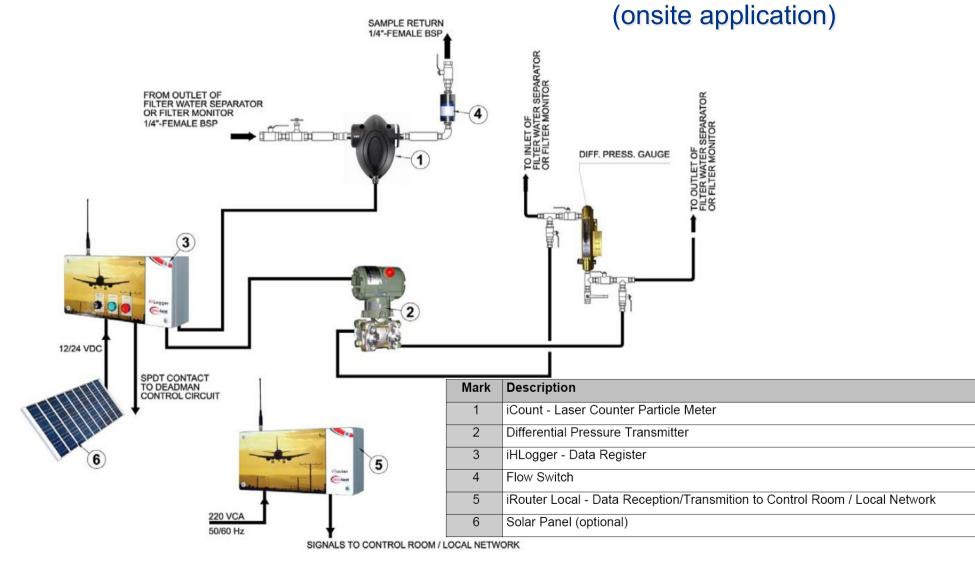


JETGARD System Assembly Diagram – Aviation Fuelling Operations

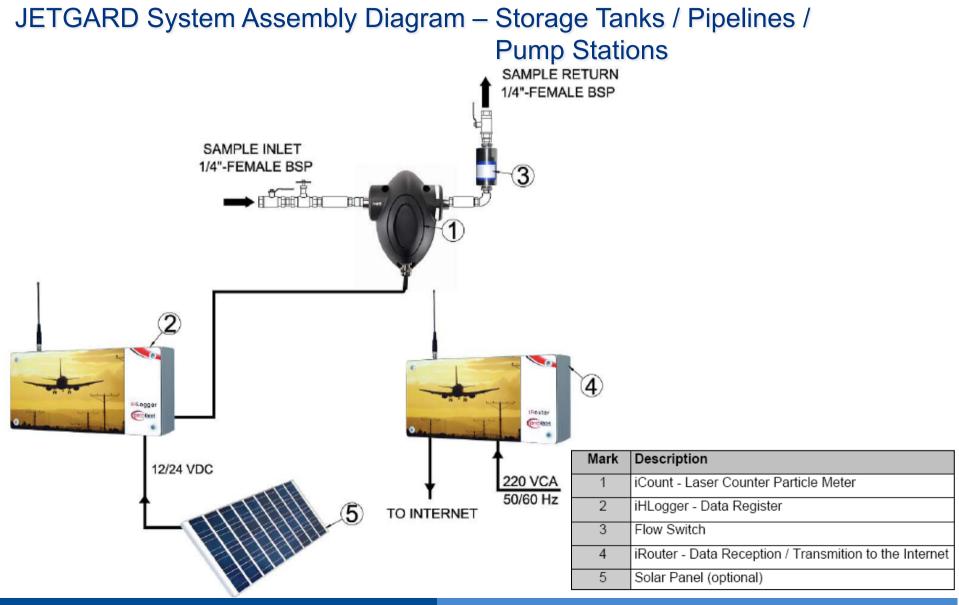




JETGARD System Assembly Diagram – Aviation Fuelling Operations

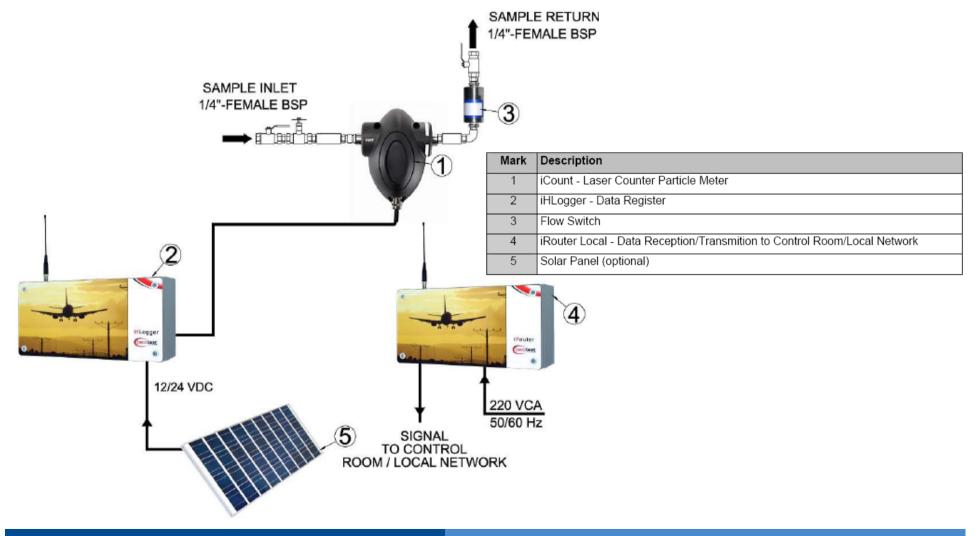






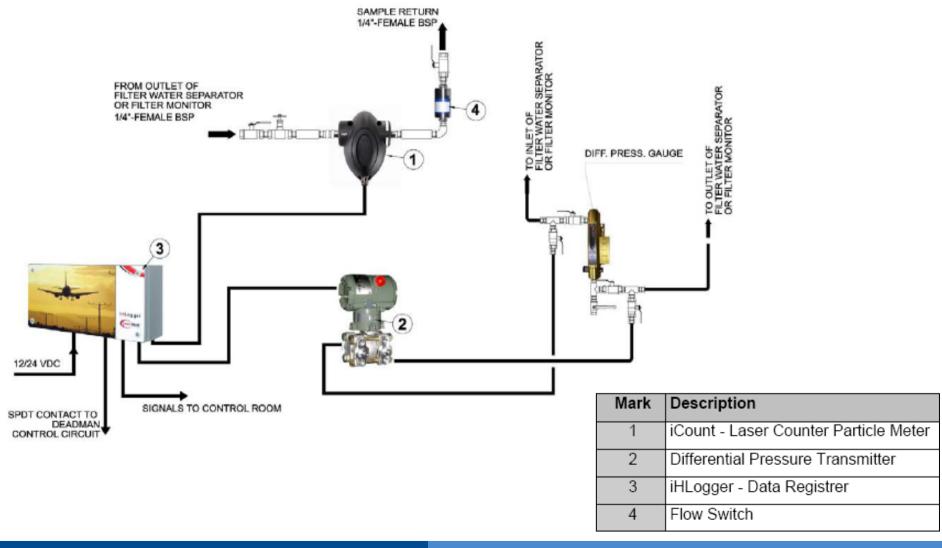


JETGARD System Assembly Diagram – Storage Tanks / Pipelines / Pump Stations (onsite application)



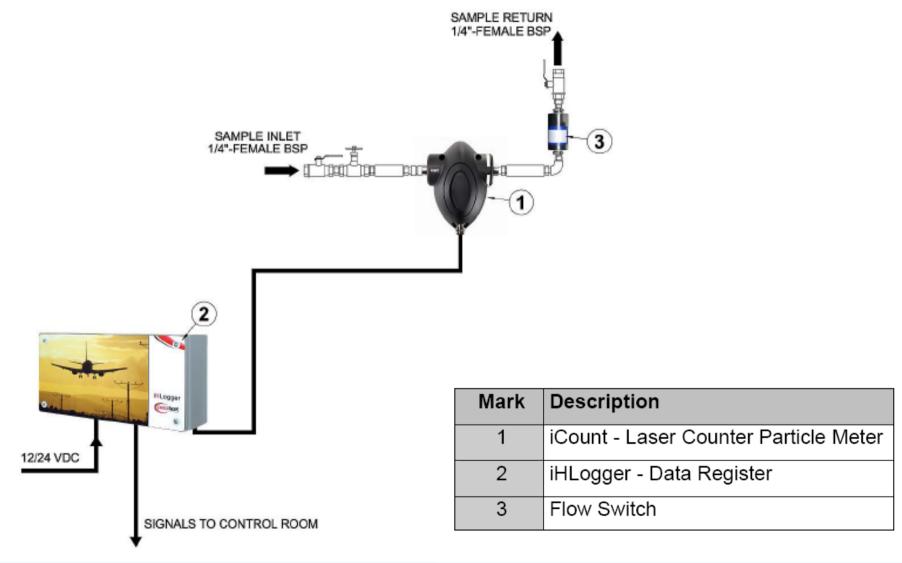


JETGARD System Assembly Diagram – Marine Fuelling Operations





JETGARD System Assembly Diagram – Marine Fuelling Operations







Thanks for your attention

www.jetgard.com

www.facetinternational.com