

TRITECH FIXED STATION - WATER QUALITY



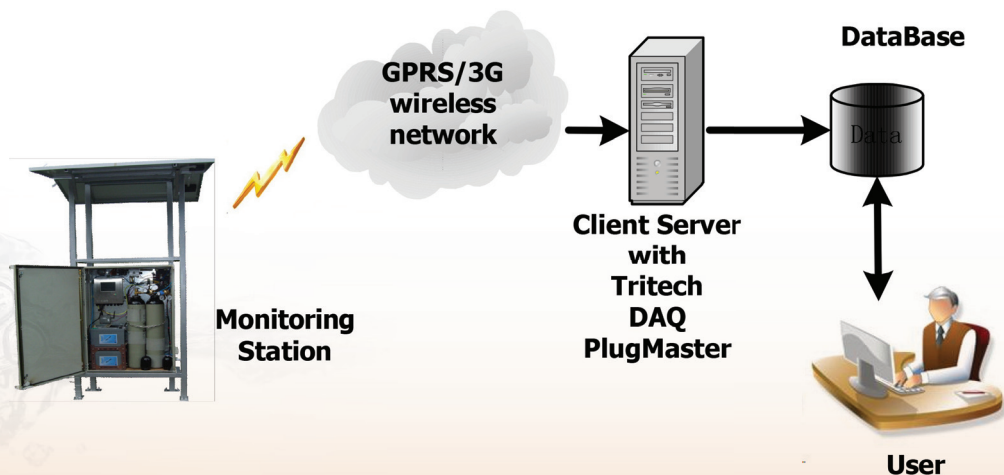
REAL TIME ENVIRONMENTAL MONITORING PRODUCT

- Fully automated in-situ water quality monitoring
- Modular design concept with option of add-on video surveillance camera
- Standard of parameter emphasis TN, TP and option parameters of heavy metals
- Independently powered by solar with low power design
- Suitable for drainage, outlets and riverside monitoring

Tritech real-time monitoring station is a fully automated monitoring system, which automatically measures and transmits the data over the internet via GSM/GPRS/3G network.



To check the real-time data instantly, customer just need to install Tritech DAQ plugmaster software in any server that is linked to internet. Upon receiving the data, the software checks for error, verifies its validity, before proceeding to write into SQL database that is installed in the customer's server.



Customer can access the data any time in any of the electronic device, by connecting to the SQL database directly via standard SQL query. Data viewable includes real-time value of any parameter, system operating status like system voltage, data logger's health and etc. This great feature enables the customer to have in-time and in-depth information about the far-away monitoring station, without having the hassle to go down and download the data manually.

Technical specification for standard parameters

Parameter	Measuring Principle	Range	Accuracy	Resolution	Reference Standard
Total Nitrogen	alkaline potassium persulfate digestion - uv spectro photometric method	0 - 5 ppm	0.1 ppm	0.05 ppm	GB3838-2002
Total Phosphorus	ammonium molybdate spectro photometric method	0 - 1 ppm	0.02 ppm	0.01 ppm	GB3838-2002

Technical specification for option parameters (Package C)

Parameter	Measuring Principle	Range	Accuracy	Resolution	Reference Standard
Cr6+	Colorimetric	0 - 0.5 ppm	0.01 ppm	0.002 ppm	GB3838-2002
Nickel	Colorimetric	0 - 0.3 ppm	0.01 ppm	0.004 ppm	GB3838-2002
Cyanide	Colorimetric	0 - 0.3 ppm	0.01 ppm	0.004 ppm	GB3838-2002

Technical specification for video parameters

Minimum Illumination	0 Lux
Resolution	PA: 752(H) X 582(V)

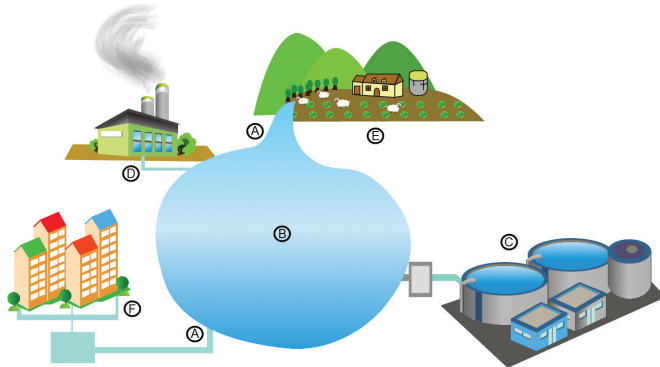
Structure Parameters

Dimension	600mm (length) *300mm (depth) *1500mm (height)
Material	Stainless Steel
Weight	70 kg

System Parameters

Power Source	Solar Power 200W
System Operating	14 days of continuous operation without sunlight
Operating Temperature	4°C ~ 40°C
System Safety	Real-time anti-theft alert
Communication	Wireless GSM/GPRS/3G network
Data format	HJ/212-2005, GB/T16706-1996

Application



The fix station of Water Quality is best for:

Type A: Reservoir Inlet

Type D: Discharge outlet
(Factory/Agricultural/Municipal)

Project Profile

Project Name	Supply,install and commission online and realtime spectrometry based sensor for water quality monitoring in Rochor Canal - PUB000EPO09000041
Project Description	1 Fix Station of spectrometry Water Quality Monitoring System(COD, TOC)
Customer	Singapore Public Utilities Board
Contract Period	2009-03-31

