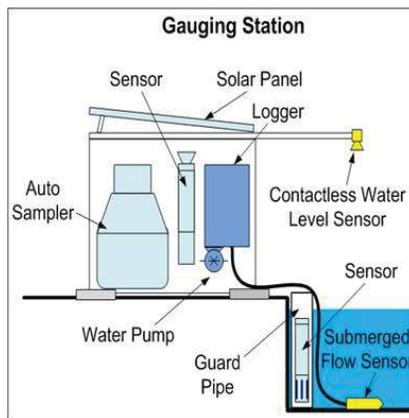


## Water Quality & Gauging Station

Our modular station design allows clients to select from a comprehensive range of water-quality and gauging (hydrological measurement) devices to be integrated into the station, providing a versatile and cost effective solution.

The system comes with versatile monitoring modes that allow automatic switching between rain events and dry weather measurement profiles. These profile configurations can also be downloaded remotely by the user via wireless connection.

Besides standard solutions, we also provide customized configuration to suit various stream, river and canal measurement conditions. And all real-time measurement data are uploaded on the web portal for immediate user access.



## System Features

- 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



## Versatile Configuration

Integration options to various water quality & hydrological devices.

	Ultrasonic Sensor		Auto Sampler		RH & Temp Sensor
	Hydrostatic Sensor		Water Quality Probes		Camera Sub-system
	Ultrasonic Flow Sensor		Spectrometry Sensor		Solar Power Sub-system
	Contactless Flow Sensor		Rain Gauge		Others / Customized System

## Flood Alert Gauging Stations

Real-time monitoring and alert of water level and flow in drainage systems and rivers are critical preventive measures to flash floods, which can result in the lost of properties and even life.

Our standard product: the Real-Time Flood Alert System (with about 70 stations deployed island-wide) provides authorities and property owners, near flooding prone areas, immediate alerts and warnings to activate preventive measures before potential flooding occurs.



### 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

Parameter	Measuring Principle	Range	Accuracy	Resolution	Reference Standard
Cr <sup>6+</sup>	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) x 300mm (depth) x 1500mm (height)
Material	Stainless Steel
Weight	70 kg

### System Parameters

Power Source	Solar Power 200W
System Operation	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

## 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 Fixed Station of spectrometry Water Quality Monitoring System (COD, TOC)
Customer	Singapore Public Utilities Board
Contract Period	2009-03-31

