



rapid • labs

Rapid testing for your field analysis and monitoring needs



Aquaculture



Water

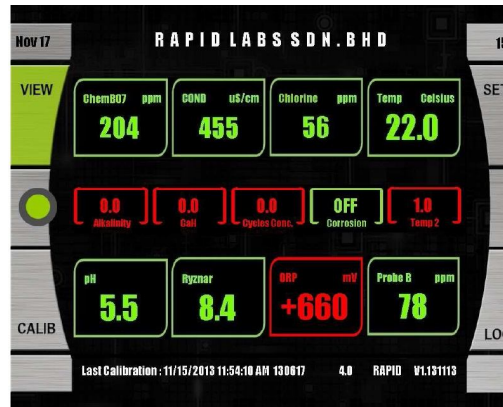


Environment

RAPID Remote Water Monitoring System

RAPID Remote Water Monitoring System provides effective solution to the process monitoring and management needs of many industries such as water and product quality control, agriculture and aquaculture.

RAPID System is equipped with customable sensors and probes to suit your process needs. These probes may include pH, conductivity, anions & cations, dissolved O₂, water hardness and alkalinity.



Customizable Screen Interface of RAPID

Applications of RAPIDS System

- Process water
- Cooling towers
- Reverse osmosis
- Raw & waste water treatment
- Environmental monitoring
- Aquaculture
- Agriculture



RAPID installation in South Africa

Key Advantages

- Enhancing mobility of end-users via remote monitoring
- Tighter monitoring & control of important processes
- Eliminate errors from manual monitoring & control
- Reducing operational costs



Solar-powered RAPID system for remote monitoring of lake water quality



Commissioning of RAPID units for deployment in South Africa

SPECIFICATIONS

Monitoring

Monitor Points : Max. 5 (five)
 Type : pH, Conductivity
 Nitrate, Ammonia,
 Water hardness
 Temp., Alkalinity
 Dissolved O₂

Control System : PC-based
 Processor

Algorithm : Upper/Lower limit
 Visual monitoring : Via viewcam

Display & Interface

Digital Display : Spot data
 Time-based plot

Remote Monitoring : Via GSM link

Visual Alarm : Color-based
 GREEN/RED

Power Requirement

Power source options (a) AC 220-240V
 (b) DC 5V
 (c) Solar panels

CONTACT

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About Rapid Labs – Rapid Labs designs, develops and manufacture testing and analysis solutions for applications in the water, environmental, food safety & biomedical sectors. Our products include portable testing devices as well as in-situ monitoring & control equipment. Our philosophy is to provide solutions to simplify the operations and reduce costs for our business customers. Our business focus is global with products delivered to countries such as Indonesia, South Africa and Brazil. We collaborate closely with universities and research institutions to continuously improve our solutions for customers.

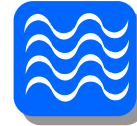


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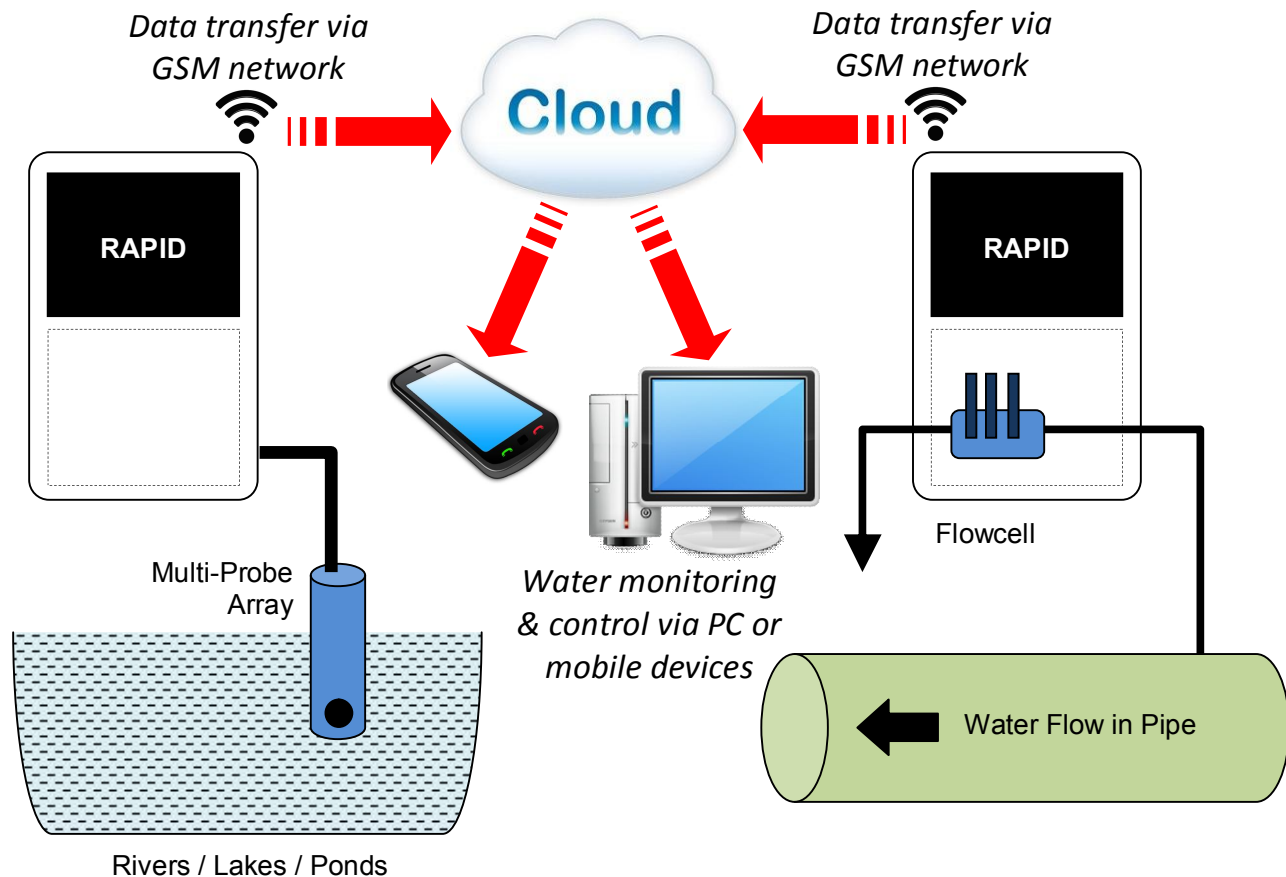


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SYSTEM DESCRIPTION

RAPID System can operate in two configurations; (1) immersing the multi-probe array into the water body or (2) drawing water flow from a pipe to channel into a flowcell. The selected sensors and probes are installed in the multi-probe array or flowcell to measure the key parameters in the water.

The processor of the system reads these signals to convert them to concentration units (e.g. ppm) for display. The algorithm in the processor allows the setting of upper and lower limits for the parameters. When any of the parameters exceeds the upper or lower limits, the parameter will go red and/or audio alarm will be triggered.

The parameters can be viewed remotely using computer or mobile devices via internet link. Users can also remotely trigger the viewcam function to view the surrounding area.