WaSP

Process Optimisation

Solutions for Industry

BENEFITS

- STREAMLINE OPERATIONS
- OPTIMISE EFFICIENCY
- CAPTURE PROCESS DATA
- FULL AUDIT TRAIL
- WEB BASED DATA HOSTING
- PARAMETER ADJUSTMENT

COMPLETE SOLUTIONS

Solutions designed and built to each individual requirement whether new build or retro-fit. Complete design, build, installation, commissioning and maintenance services

WEB ENABLED DATA

Monitor multiple process transactions and produce customizable reports and trending via secure web based applications

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WaSP POS - Process Optimisation (Sludge)

JRP's WaSP POS solution provides opportunity for minimizing cost, maximizing throughput, and increasing efficiency through enhanced data capture, visualisation and reporting allowing enhancements to be easily made to process control functionality within wastewater process management and sludge production.

Control & Monitoring Applications
The WaSP POS product range provides a control and process monitoring device which can be deployed as a multiple 'one stop' solution for new build or retrofit environments. Current standard software module applications include: -

- ➤ Auto Desludging
- ➤ Auto Decanting
- ➤ Sludge Tank Exports
- ➤ Digester Performance
- ➤ Thickening / Dewatering
- ➤ Chemical Dosing

Operation
The WaSP solution can be integrated with a variety of standard process instrumentation such as flow meters, suspended solids metering, pH monitors, temperature sensors, level detectors, etc. as well as actuated valves and pump controls for diverting flow & desludging, etc.

The WaSP POS provides continuous monitoring and control of important site process functions allowing critical data to be logged and sent via GPRS comms for monitoring / optimisaton. By analyzing important process data captured, setpoint adjustments can be made and control loop parameters can be optimised to provide enhanced process results.

Site Integration
Each WaSP POS unit can log multiple processes and functions in user definable transaction intervals as well as conducting data manipulation locally to provide critical parameters on site such as TDS (Tonnes Dry Solids), etc.

Process Data Visibility
The following are examples of process parameters captured and displayed for a typical application via the WaSP POS: -

- ❖ Flow (Instantaneous and Cumulative)
- ❖ Historic daily / weekly / monthly Flow totals & trends
- ❖ Solids Density (Instantaneous and Average)
- ❖ Historic daily / weekly / monthly TDS (Tonnes Dry Solids) totals & trends
- ❖ Temperature (Instantaneous and Average)
- ❖ Historic daily / weekly / monthly Temperature totals & trends

System Features

- ❖ Robust and durable enclosure for aggressive environments
- ❖ User friendly local menus, status screens & mimics
- ❖ Text Alerts and messages to local operations staff / maintenance teams
- ❖ Real time transaction data reporting analysis & trending
- ❖ Full local / remote data archive
- ❖ Remotely manage diagnostics / maintenance / facility status
- ❖ Local optimisation parameter adjustment options

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MAINTENANCE

Providing comprehensive and tailored preventative and responsive maintenance packages to ensure optimum facility operation and minimum operational down time

SERVICE & SUPPORT

Our service department provide 24/7 support and technical assistance to ensure data integrity and facility efficiency is assured
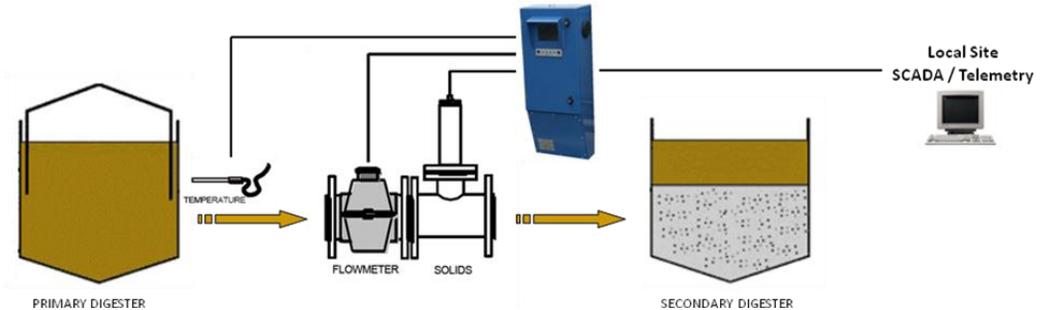
Technical Details

WaSP POS is fully CE marked and certified to: -

- ❖ IP65 Rating
- ❖ High Brightness TFT user display (option)
- ❖ Vandal resistant cursor keypad and pushbuttons
- ❖ Temperature controlled interior
- ❖ Windows XP embedded application
- ❖ GPRS, GSM, SMS & SCADA comms

Typical Application - Sludge Process Monitoring

Monitoring flows, sludge density, temperature and tank levels between treatment processes providing the data in a user friendly format for analysis and review. The system can be used to improve the efficiency of the process by ensuring optimum parameters can be set to achieve and maintain desired results. The system can monitor multiple lines with differing process parameters and can be setup to provide individual logging characteristics, controls and event alerts, etc.

Other Applications : -

- ❖ Belt Press Thickening Lines - Monitor the thickening / dewatering process and improve dosing efficiency
- ❖ Auto Desludge - Optimise & control the desludge pump operation based on optimal solids parameters
- ❖ Auto Decanting - Optimise & control decant valve operation based on optimal solids / flow parameters
- ❖ Sludge Tank Export - Monitor & control liquid sludge export process to road tankers
- ❖ Chemical Dosing control - Optimise and control the dosing process for a particular application

Software

Comprehensive web based software and data management services provide a flexible and affordable solution for handling and reporting all data captured from each POS. The portal can be used for client access to view, analyse and trend appropriate site data for monitoring / alerting, audit trail and defining operational set point parameter changes to optimise the application.

The WaSP POS web portal application can be hosted remotely or internally within a client intranet and allows secure multiple user tiered level access to a customised application for viewing, analysis and report production at next to real time via GPRS data communications.

- ❖ Full Transactional drilldown reports
- ❖ Complete filter options for improved analysis
- ❖ Export all data to csv file (excel format)
- ❖ Graphical trending and export
- ❖ Automatic email reporting
- ❖ Threshold alarms / alerts
- ❖ Group & filter data by process
- ❖ Health check reporting & status
- ❖ Customizable reporting features
- ❖ Remote data archive facility

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