



Revolutionary Remote Process Monitoring

e-RPM provides a process monitoring service to operations managers and technical/engineering staff with responsibility for process management and process improvement.



Having conducted an initial survey, we will specify an appropriate monitoring and advisory package with 8 data capture, and multiple transfer points.

Uniquely, we harness the Internet to provide a communications link to our control centre, enabling a truly remote, worldwide service.

Routine monitoring reports are provided to agreed frequencies, and SMS text messaging used to provide instant alerts to nominated recipients whenever process non-conformance occurs.

Through e-RPM, those with responsibility for process conformance have the peace of mind that they will be immediately aware of a problem. e-RPM provides process data records can then be used as a basis for further analysis and process improvement, or to support statements of conformance for quality management or regulatory purposes.

e-RPM is provided on a service contract basis, charged as a revenue item, and with no capital cost involved.

Typical processes on which e-RPM can implement remote process monitoring:

- RO/DI water purifiers
- Waste water Treatment and Recycling plant
- Fume Scrubbers and Process Exhausts
- Aqueous Parts Washers and Rinsers
- Cooling towers
- Leachate and site run off
- Lagoons and interceptors
- Metal coating operations

Critical process data which e-RPM can capture:

- Solution and Air Temperatures
- Acidity and alkalinity by pH
- Salinity by Conductivity
- Suspended Solids by Turbidity
- Re-dox by ORP
- Input, Recycle and Discharge Water and Air Flow Rates
- System Pressure
- Metal contamination by Solution Monitor
- Stored Liquid and Reagent levels
- Process chemistry condition

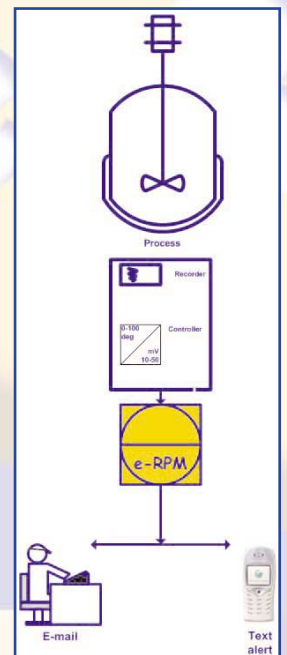
e-RPM Assures Process Conformance

e-RPM delivers verified periodic reports of system performance with electronic and printed substantiation to authenticate your records for ISO 9000 and 14000, and other regulatory continuous improvement systems.

In multi-site operations we can arrange to feed information to centres of corporate control and technical excellence.

e-RPM service packages can include new analytical and monitoring systems, in addition to your existing controls, again, at no capital cost.

e-RPM real time information and alerts are delivered through Internet-friendly e-mail and website hosted indicators.



e-RPM Technology

e-RPM is not a dedicated SCADA concept requiring considerable initial investment to design and implement. e-RPM gathers existing and if required additional process analyser and controller readings and displays them on a secure website. e-RPM stores data for periodic download to spreadsheet software. e-RPM will automatically send an alert by email and mobile phone text message to nominated recipients for any out of condition parameter. e-RPM uses local ISP and website access, thereby avoiding telephone charges for modem links and costly external IT support to maintain.



e-RPM equipment is fitted and maintained by us at no extra costs. Updates and software upgrades are included without costly run time licenses for the duration of the agreement.

e-RPM Improves Process Economics

All e-RPM service packages include an engineering audit of your process. This can be extended to include target setting for planned cost reductions, waste avoidance, and abatement.

e-RPM monitoring, advice and support service is delivered by our experienced process engineers familiar with your industry, and who are enabled to view your process real time in order to provide timely and expert advice.

Staff costs associated with traditional manual monitoring methods are reduced by e-RPM. Likewise, the costs of quality associated with product non-conformance are also driven down.



e-RPM Contract

e-RPM Service packages operate for a minimum period of 24 months. At the end of the contract you are invited to extend the agreement and if needed extend your process monitors. If the process operations are discontinued we will safely remove our e-RPM monitor and restore the system to its former monitoring status.

Initial process audits can be undertaken without prior service contract commitment. In these circumstances a small charge is made, which is refundable when a contract is subsequently taken up.



The e-RPM Monitoring Package comprises:

- **Installed Data logging monitor**
Self hosting Web manager
- **Online Website Viewing of Process parameters, alarms and trends**
- **Re-settable alarms**
- **Email report and Text alert of alarms and non conformances**
- **Periodic performance data down load**
- **Monthly Analysis and verification of performance data submitted as a spreadsheet and charts**
- **e-RPM equipment service and calibration**

The e-RPM Monitoring and Management Package

- **Items as specified for e-RPM monitoring**
- **Additional monitoring sensors not presently included in your equipment**
- **Detailed comparative analysis of performance and consumptions by month**
- **Trend analysis and commentary inclusive with periodic report**
- **Advisory input and support on alarms and non conformances**
- **System performance analysis and tie in with analytical reports**
- **Advice and recommendations on equipment maintenance, improvements and upgrades**

