



Alerta Limited

T: +44 (0) 207 117 2440 E: info@alerta.uk.com W: alerta.uk.com

Strategically positioned sensors are calibrated to measure the performance of each specific part against industry/multi-manufacturer standards, showing when parts actually require maintenance intervention (before they move into a 'disaster recovery mode') and also when they are working normally, eradicating unnecessary servicing.

PREVENTATIVE MEASURES

Alerta's software system empowers operations staff and engineers through the delivery of precise and predictive measurements across a number of specific performance areas. Continuously monitoring moving parts, Alerta transfers real-time performance data to the user in a format that includes simple machine visualisation combined with powerful reporting.

Delivered via strategically positioned sensors that can measure the performance of any moving part within any engineered product, the resulting information enables highly efficient and accurate analysis that effectively eradicates incorrect fault diagnosis.

Managed by a Universal Adapter Box (UAB), the software system uses colour-coded (red, amber and green) alerts to automatically mark machines or environments that have exceeded a threshold value, and crucially, before they exhibit excessively high measurement values. Proactive, preventative strategies can now be adopted, with each sensor able to pinpoint a component's behaviour within the monitored asset.

The Alerta system uses any number of relevant monitoring sensors to gather data that is instantly transmitted by Wi-Fi to monitoring points; control centres, computers, laptops, tablets or mobile phones.

Using the most advanced diagnostic machinery, feeding into an Open Access SQL Database, the Alerta system integrates seamlessly with users existing business intelligence tools. It also provides the user with significant data mining opportunities to enhance asset management visibility.



ALERTA IN ACTION

Setting the standard in machinery monitoring, below is an overview of how Alerta can be implemented to measure the performance of Escalators and Lifts:

- Sensors are precisely placed to measure key moving elements on the designated escalator or lift. Monitored areas can range from chain tension and handrails to gearboxes and rollers.
- As many sensors as are required are placed into the moving machinery to measure specific areas of performance, including, but not limited to, vibration, odour, current, voltage, motion, heat, moisture, light, liquid, tension/stress and dust.
- These sensors are calibrated to measure the performance of one specific operational part, against agreed industry/multi-manufacturer standards.
- The data collected from the sensors pass continuously to the UAB which collects, interprets and collates the information.
- This data is then instantaneously transmitted by Wi-Fi to monitoring points; control centres, computers, laptops, tablets and mobile phones as specified by the client.
- Alerta shows when the monitored (moving) parts are operating within manufacturer specified tolerances and when they are starting to malfunction.
- Alerta not only continuously monitors moving parts, but also automatically alerts operators when parts are acting outside of the manufacturer/industry defined parameters and to what degree.

