

Condition Monitoring

Device monitoring for tunnels

Condition Monitoring:

Data transparency increases availability.

Data analysis and trend forecasting

Diagrams present measurement data and the status of all devices in your tunnel in a clear and understandable way within the dashboard.

Reduced tunnel closure

Early fault detection reduces unplanned downtimes and ensures your analyzers run smoothly.

Quick response

Automatic alerts in e-mails or text messages enable timely action when anomalies or deviations are detected. Solutions and recommended actions are displayed directly.

Predictive maintenance

Verification and evaluation of historical data make it possible to schedule maintenance work and optimize the lifetime of spare and wear parts. This saves time and money.



Know today what will happen tomorrow

The Monitoring Box provides an effective solution for monitoring and maintaining devices and sensors in tunnels. Device and sensor states can be monitored in real time, and undesired operational states predicted ahead of time. If required, every significant change to the device states is visualized concisely and clearly in a browser-based dashboard,

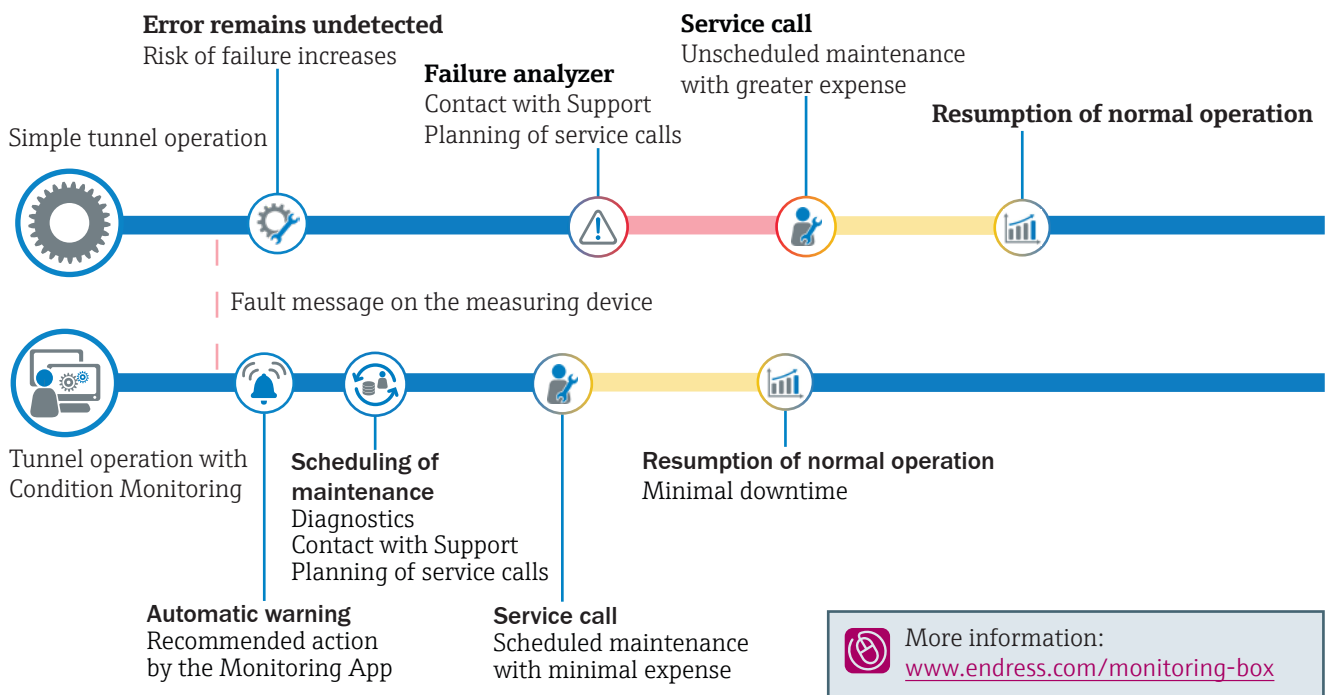
thereby enabling the operating staff to intervene in a timely manner. This ensures the availability of critical device components. The Monitoring Box contributes significantly to the trouble-free utilization of tunnels. The availability of measuring devices, thereby leading to lower costs.



The sensors are connected to a Smart Service Gateway via standard interfaces. The data is collected and pre-processed in the gateway.

The Smart Service Gateway is the connection to the Cloud. It encrypts the data and then uploads it.

The data is loaded from the cloud into a browser-based application. The app handles analysis and visualization of this data for the user.



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IN01.413K/90/EN/02.26-00
(8030406 / EN / V1-1)