



Senseven App and Backoffice: Feature Overview

Senseven-Platform

The Senseven platform consists of a mobile software application (Senseven App) and a web app (Senseven Backoffice)

Senseven App

To test valves for internal leakage, an Android app is used. It is used both for data collection of the acoustic emission signals and for direct evaluation and reporting.

The App's range of functions includes:

- **Connection to analog digital converter for data recording**
- **Automated data synchronization with a cloud platform (AWS)**
- **User Login**
- **Plug & Play solution - no installation or registration**
- **Software-guided inspection process** (provides recommendations, warnings...)
- **Check for sensor saturation**
- **Signal processing for the automated reduction of background noise**
- **Generation of additional time- and frequency-based features**
- **Immediate, automated evaluation of the result**
- **Live view of dB values and hits**
- **Input of the defined metadata**
- **Read/write RFID tags** (for metadata)
- **Digitization of components: Creating and managing components of customers' industrial plants** (one-time set up of metadata in the platform)
- **Take a photo or upload from the gallery**
- **Overview of all measurements carried out**
- **Trend view per component - see the development of a component over time**
- **Automatic creation of a standardized measurement report** (ISO 18081)
- **Offline use with offline/online data synchronization**
- **Automatic software update**
- **System check:**
 - Check of sensor sensitivities
 - Check connection of the measuring electronics



SENSEVEN

Senseven Backoffice

The Senseven Backoffice serves as an analysis and overview platform for customers. Accessible via mobile phones, tablets, laptops and desktop.

Features include:

- **Connection to cloud platform (AWS)**
- **User Login**
- **Overview of all measurements carried out**
- **Automatic creation of a standardized measurement report (ISO 18081)**
- **Comparison view of several valves**
- **Trend view per component – see the development of a component over time**
- **Fast Fourier Transformation (FFT) analysis of raw signals (for experts)**
- **Audio playback of raw signals (for experts)**
- **Digitization of components: Creating and managing components of customers' industrial plants** (one-time set up of metadata in the platform, also Excel upload possible)
- **Possibility to directly connect to existing software systems via APIs**