

ITEQ sprayer diagnostic software

Mostade, O.; Briffeuil, P.
ITEQ, Chemin des artisans 3c, 5150 Floreffe, Belgium

Summary

ITEQ has developed a software to efficiently manage all technical data as well as administrative data related to sprayers inspection. With SDSOft – Sprayer Diagnostic Software - the operator will easily plan appointments with users, manage all measurements (inspection results and calibration data) and easily print clear and comprehensive reports directly at inspection site. SDSOft can be used in standalone mode for manual data encoding or connected to ITEQ digital sensors for automatic data acquisition.

SDSOft is composed of 4 inter-related modules.

Core module (European protocol and reporting)

- Covers all administrative data (date, location, users and sprayers data,...) and technical data (results of visual inspection and all measurements with automatic calculation).
- Contains by default all acceptance criteria and limits proposed by the European protocol. Also the operator may easily customize the inspection protocol in line with country specific recommendations.
- Contains a database of more than 1600 reference flow rates from all nozzles manufacturers.
- Allows to automatically create (in pdf file) and print on site a full report for the user giving the overall outcome of inspection – pass or fail – and highlighting deficiencies and weaknesses to be watched.

Planning module

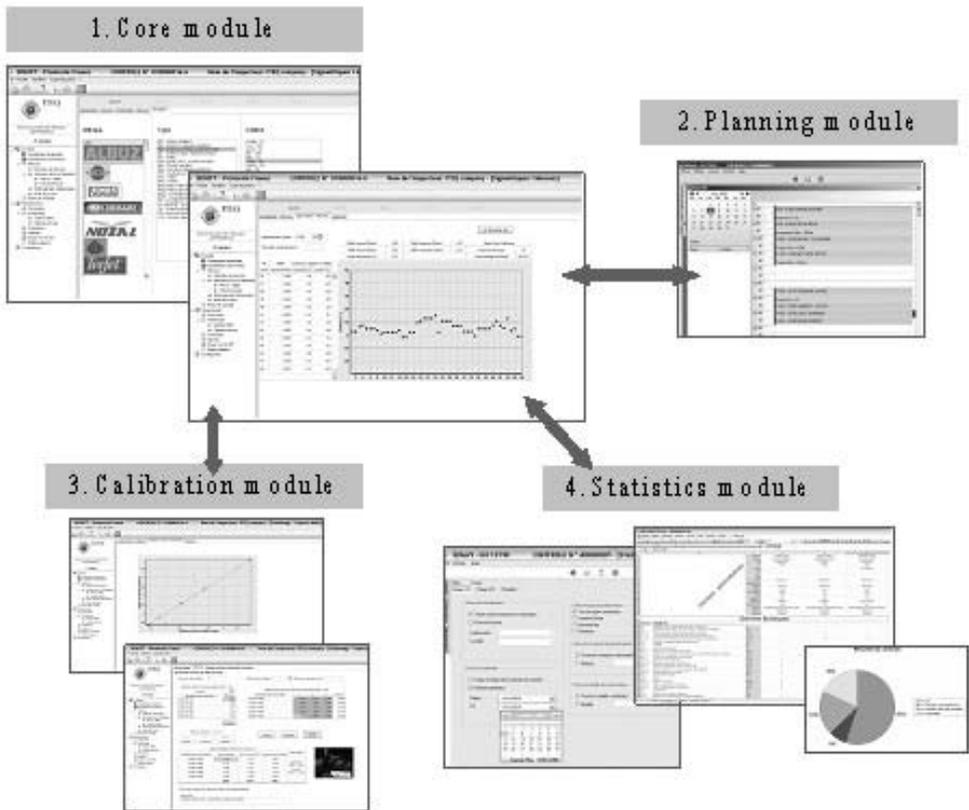
- Easy management of the central user/sprayer database
- Dynamically create inspection planning for operators
- Print labels for sending appointments to the users

Calibration module :

- This module is a “must” to perform the calibration of measurement materials (flow rate and pressure measurement equipments).
- It establishes the correlation/deviation between reference and measured values by the ITEQ equipments.
- A calibration report is provided for each verification (pdf file) and can be printed.
- The traceability of the calibration is guaranteed by the use of calibration materials certified by reference accredited laboratories (ISO17025 - BELAC/DAP/COFRAC/CAI/...).

Statistics module:

- Consolidates all information from the core module.
- Output can be exported to tabular format (Microsoft Excel).
- Such consolidated information is useful to:
 - Generate feedback reports for manufacturers, authorities,...
 - Create periodic activity reports: number of inspections, statistics on recurrent defects, ...



Conclusions:

SDSsoft is a software that manages all data related to sprayers inspection - from appointment to inspection report. It has been developed in parallel to ITEQ equipments to ensure reliable automatic data capture. SDSsoft exists in French, English and Spanish. It can be easily translated to any language. It fully complies with the European protocol and can be customized to country specific recommendations.