Simplified Pipette Management & Checking

Regular performance testing and calibration of liquid handling devices such as pipettes is essential to ensure they're operating correctly. Potential problems must be identified and corrected before they impact the integrity of your data.

Pipette Wizard is perfect for laboratory technicians and managers who want to check the accuracy and precision of their pipettes, without the inconvenience and cost of sending them away, whilst also tracking their performance and calibration history. Full program control of both single and multi-channel balances is included providing rapid calibration of single and multiple channel pipettes.

Installation

The Pipette Wizard installer allows you to choose between the included database engine or to utilise an existing SQL Server. Once installed you just need to activate your copy using the supplied product key.

Standards and Procedures and CFR 21 Compliance

Pipette Wizard has been developed to BS:EN62304, a prerequisite for the medical device standard ISO 13485. It also conforms to the procedures described in ISO/EN 8655 and 17025. As such its use can be incorporated in your laboratory standard practice with confidence.

Users are required to login and Pipette Wizard includes full audit logging making it compliant with 21 CFR Part 11 requirements.

Pipette Management

Details that are stored for each pipette include:

- Make and model
- Volume or volume range if adjustable
- Serial number and optional ID number
- Optional department and location data
- Purchase and warranty expiry dates
- Type including number of channels and whether manual or electronic
- Default calibration interval

Stored pipette details can be readily reported on or exported and this is an easy way to manage your pipette assets. Previous calibration history is readily available.

Balances

Pipette Wizard can send commands to a connected balance via a com port and receive data back. The balance setup wizard allows you to specify commands sent (i.e. Tare Balance and Take Reading) and also to configure the com port. You can configure unlimited numbers of balances and the software will remember which balance was last connected to the PC and offer that as the default.

Pipette Wizard communicates with the 12-channel Sartorius SpeedCal and SpeedCal Mobile balances to automatically tare and receive back values for all channels.

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Calibration

For repeat calibrations of a selected pipette the details of the previous calibration are used as the default settings for the new calibration. These settings can be easily altered if required and they include:

- Number and specification of which channels to test if multi-channel pipette
- The number of readings and test volumes to perform the test e.g. 5@2 (five readings at two volumes)
- Test equipment including the balance and optionally the hygrometer, barometer and thermometer
- Test specification which includes:
  - Dispensing mode
  - Ability to add Manufacturers, user defined and ISO 8655 specifications
  - Target volumes
  - Imprecision and inaccuracy limits for each target volume

For each channel and target volume the observed mean and standard deviation of the corrected readings (correction for temperature and pressure) are compared to the imprecision and inaccuracy limits specified in the test specification and the result is either a 'Pass' or a 'Fail'

Reporting

Pipette Wizard includes a criteria-based reporting system which can provide a wide range of reports including:

- Calibrations due / overdue
- Pipette lists (asset management)
- Calibrations performed and history

The design of each report can be saved for easy recall at any stage. All reports can either be printed via Pdf or exported in Excel format.

Professional Version

The professional version includes the following additional features:

- Balance validation against reference weights
- Customer management
- Second sign off / approval of certificates
- Tailored uncertainty budget

OEM Opportunities

Providing laboratories with easy to use calibration software should encourage routine checking of pipette performance leading to regular service and accredited calibration and sales opportunities to replace pipettes that are beyond economic repair. Pipette Wizard would also be an excellent incentive for bundled pipette deals or similar promotional offers.

Pipette Wizard can be branded to provide OEM versions and to include distributor or manufacturer specific marketing information such as contact details and website links. Other features can include a logo and splash screen, colour theme, contact page and dedicated download and activation web pages.

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