

LabX™ Software

LabX™ balance

LabX® titration

LabX™ connect

Complete Overview – Total Control

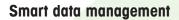
Smart Laboratory Instrument Software



The Smart Laboratory

Empowered by LabX™

LabX™ is a single software platform designed to manage all your METTLER TOLEDO laboratory instruments and the data they produce. With full on-screen user guidance, this easy-to-use software increases efficiency and productivity in the laboratory and allows you to achieve a higher level of regulatory compliance. Designed to meet the needs of the smallest company through to the largest global enterprise, LabX™ incorporates a wide range of features powerful enough for your most advanced applications.



- Full network capabilities
- Inbuilt reporting capabilities
- Complete security and compliance support







Smart instrument control

- Complete overview of running tasks
- Built-in method library
- Easy customization of methods
- Consistent style for all instrument types



Laboratory



Smart instrument management

- Keep track of your instruments and their status
- Enable total control of the instrument usage and their resources
- Makes maintenance easy schedule adjustments and checks







Quality Control



Smart integration

- Make instrument control part of your workflow
- Fully integrate instruments via LabX into LIMS or other data management systems
- Use inbuilt reporting or carry out analyses with 3rd party tools







The multi-tasking capabilities of LabX™ allow several METTLER TOLEDO instruments to be run simultaneously.



Connect all your METTLER TOLEDO instruments directly to your network. The latest instrument models have an integrated Ethernet connection ready to use.



LabX[™] balance Control Your Weighing, Easily and Securely



Transfer data.



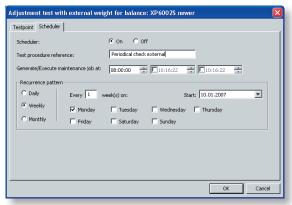
LabX - Smart Laboratory Software from METTLER TOLEDO





Collect and manage calibration data

- LabX[™] controls adjustments and sends reminders to the users to enforce the required checks.
- To ensure that results are 100% correct, LabX™ can lock the balance from running other weight collection applications if calibration criteria are not met.
- A detailed calibration history is stored in the system.



Send data to any destination

- Define the fields to be exported, weigh the samples, and the data will be automatically transferred to the application of your choice e.g. Excel® spreadsheet
- Connect LabX[™] to the existing LIMS. See LabX connect on page 9.
- Data is always accessible and secure. All data is stored in an industry standard Microsoft® SQ-database. Comprehensive reports can be viewed and printed.

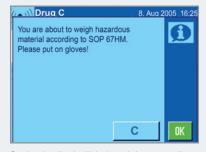


$\textbf{LabX}^{\!\scriptscriptstyle{\mathsf{TM}}}$ enhances the flexibility of your applications

Increase efficiency and reproducibility of your routine tasks. LabX supports you with built-in job templates e.g. differential weighing, dynamic weighing, interval weighing, totalization and density applications.



Whatever your application, you have the extra flexibility of LabX™ at your disposal. Density determination using a balance with an ErgoClip accessory is illustrated.



Customize the built-in templates according to your own procedures – the user is directed through each process with full on-screen guidance.



Full traceability of your weighing results – even with hundreds of filter papers, your data is safe.



LabX® titration

The Software Wizard for Simple and Efficient Titration

Speed up your daily titration routines

One Click™ operation of daily tasks

- Single-click start of manual tasks, Sample Series or Sample Series Sequences by Shortcuts.
- Flexible arrangement of all static windows according to your needs.
- Pop-up windows show information when required.

Efficient Sample Series management

- As soon as you drag and drop the Sample Series icon onto the desired titrator symbol, the titration starts immediately.
- With the sample series editor, you can easily edit your sample data, add samples to a Sample Series or delete them.

Flexibility in operation – the Dual Mode

- Work from the Excellence Terminal or from the LabX® PC (or from both) depending on your environment and your needs.
- Ideal for environments where no PC is possible/desired near the titrator.
- Ideal for remote data collection via Ethernet.

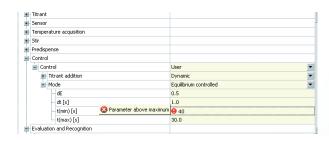
Create and manage methods quickly and easily

Method wizard for all applications

- Greatly simplified method creation facilitated by predefined method templates and the METTLER TOLEDO segment-specific application database.
- Easy management of methods in the user-specific method library.

Optimized method editing

- Optimum overview during method editing provided by the strict hierarchical structure of the method editor.
- Error-free working thanks to the full real-time method plausibility check.





Rinse, 100 %

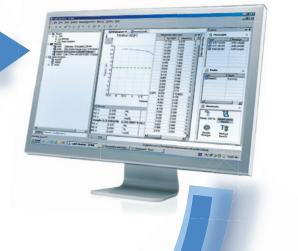
Sample Changer mple series Base01

Method

Base01



LabX – Smart Laboratory Software from METTLER TOLEDO



LobX

Simple and secure sample handling with LabX® Smartcodes™

- A titration method is automatically selected when a Smartcode[™] is read in with a barcode scanner.
- Enhanced security is provided since each sample is analyzed with the correct method.
- Time-consuming manual ID assignments are reduced to One Click™.



Manage your results efficiently according to your needs

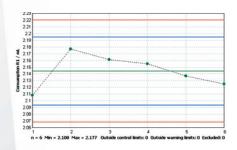
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Efficient data management

- Control charts to display the history of sample results, sensor calibration or titer determination.
- Pre- or user-defined data filters enable quick access to specific results.

Define your specific documentation

- Comprehensive, GLP-compliant documentation of methods, results and analysis reports.
- Report layout editor to adapt the reports to your needs.







LabX® pro titration controls the Compact Coulometric KF C30 – Stromboli oven sample changer system in a Quality Control lab for determination of the water content of lubricants.



T90 – Rondo 20 - LabX® pro titration system in production control for acid, base and saponification numbers for the analyses of a diverse range of lubricants.



Dual Mode operation with LabX® pro titration in pharmaceutical R&D. Manage your results from your office desk and control your titrations from either the PC or directly in front of the titrator.

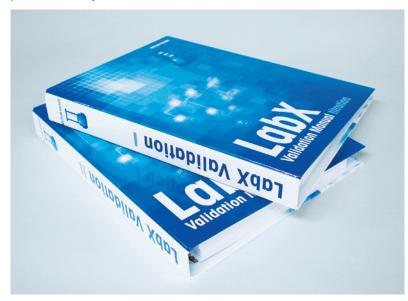


Validation of LabX[™] Efficient Software Validation

Validation of software can be a challenge. However, the LabX $^{\text{\tiny M}}$ Validation Manuals I & II make system validation straightforward and complete. The two manuals contain all the information, instructions and forms you need to satisfy any regulatory body.

METTLER TOLEDO LabX validation...

In most countries, METTLER TOLEDO offers a complete validation service: please contact your local vendor for further Information.



LabX™ Validation Manual I

This folder contains all information necessary for the qualification of METTLER TOLEDO as the software supplier (Vendor Qualification).

Contents are:

- Company Information and Structure
- Quality Management System: Infrastructure
- Quality Management System: Software Development
- LabX™ Development Process
- LabX™ Sales, Support and Training

LabX™ Validation Manual II

Contains all instructions and forms necessary for the validation of the software (IQ, OQ).

Contents are:

- LabX™ Validation Procedure
- System Overview
- Installation Qualification
- Operational Qualification
- System Security
- Backup
- Disaster Recovery





LabX[™] connect Integrate your Instruments into the System of Your Choice



LabX™ with the LabX™ connect Application Program Interface (API) offers a powerful and elegant solution for integration with 3rd-party lab data systems. Open the door to any system for easy bi-directional integration with your balances and titrators.

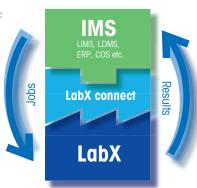
Let $LabX^{\text{\tiny TM}}$ take care of the instrument management and instrument control and send tasks from your system (e.g. LIMS) to $LabX^{\text{\tiny TM}}$ to obtain the desired results.

LabX[™] connect is built with two interface types:

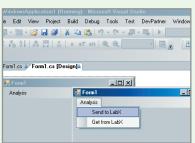
Event interface: notifies a 3rd party system of instrument events. E.g. $LabX^{\infty}$ receives a result from an instrument and informs the 3rd party system that a new result has been acquired.

Method interface: offers various methods that can be triggered from a 3rd party system. E.g. a LIMS creates a sample list within LabX™, then assigns and starts an analysis method on a specific instrument.

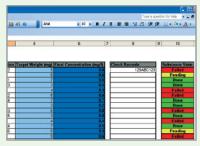
For detailed information please contact your local vendor for the LabX™ connect «System Integration Guide».







Integrate your LIMS/CDS with LabX $^{\bowtie}$ pro in order to send tasks from the system to the instrument and get results back from LabX $^{\bowtie}$.



Integrate LabX[™] with standard Excel[®] spreadsheets for customized visualization of your data.



Use the freedom of LabX connect to design your own applications using nearly any programming language which supports the Microsoft interface technology COM (Component Object Model).

LabX™ Common Specifications		
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General Features	_	_
Editor to allow the user to create and edit methods	•	•
Easy to use Windows based user interface	•	•
Available in multiple languages	•	•
Wizard guided for easy setup	•	•
Titration Smartcodes [™] : encoded methods are automatically selected		•
when read in with a barcode scanner		
Data Management		
Results stored in SQL-database	•	•
Powerful database filter function – user definable filters	•	•
Flexible statistical evaluation	•	•
Calculation with formula editor	•	•
GLP-compliant reports	•	•
Copy/paste of tables, lists and pictures into Microsoft Word, Excel® or other similar	•	•
software packages supporting OLE		
Database tool for maintenance and manual/automated backup	•	•
Bi-directional, fully configurable and automated communication with LIMS		•
available as option (LabX™ connect)		
Automatic or manual export to Excel® or LIMS		•
21CFR Part 11 Compliance Support		
User management		•
Account management functions		•
Electronic signature and approval/sign-off functionality		
Audit trail with full filter and export functionality		•
Addit trait with fall title and export functionality		
System		
Central SQL-database	•	•
Installation checker to prove proper installation	•	•
Integrated online help system	•	•
Full networking capability		•
Multiple instruments connected directly via network		•
Multiple number of clients		•
Client/server architecture		•
Services		
Installation service	•	•
Maintenance contract	•	•
Validation service		•
Revalidation service		•

LabX[™] balance Specifications

Recommended METTLER TOLEDO balances: XP, XS

Supported METTLER TOLEDO balances: AX, MX, UMX, AG, PR, SR, PG-S, SG, AT, MT, UMT, AB-S, PB-S, PB-L

Features

- Navigate LabX and collect data without touching the computer (with balance models XP, XS, AX supporting RapidAccess)
- User guidance on the balance display
- · On-line view on the computer
- Job queue (task list per balance)
- Support of weighing, differential weighing, dynamic weighing, interval weighing, totalization and density applications
- Balance settings management
- Test and adjustment scheduler
- · Instrument release control MinWeigh incident history
- Calibration history
- Weights library
- Instrument tolerance management with built-in tolerance database

Benefits

- · Easy weight capture
- · Flexible implementation of weighing SOP
- 100% reliable data
- Fully traceable calibration data

LabX® titration Specifications

Supported METTLER TOLEDO titrators

General purpose titrators: Titration Excellence T50, T70, T90; DL50 Graphix/Rondolino, DL53, DL55, DL58, DL70ES, DL77 Karl Fischer Volumetric titrators: V20, V30, DL31, DL38; Karl Fischer Coulometers: C20, C30, DL32, DL39

Features

- Unlimited number of titrators per PC (recommended 1-3, LabX™ light can only control one titrator)
- Dual mode: work with LabX and Excellence titrator Touchscreen at the same time
- · Remote control of manual titrator/sample changer functions
- Instrument resource/settings backup and transfer
- User defined Shortcuts for Titration Excellence titrators
- · Online titration curves with derivatives, table of measured values, job queue status
- Sample/batch editor
- Method editor with integrated database of 500+ general purpose and Karl Fischer titration methods including full descriptions
- Import and export of methods
- · Control charts for displaying of history of sample results, sensor calibration and titer determination
- User definable report and data structure
- Graphical re-evaluation of titration curves (tubbs, tangents, segmented, extrapolation and manual)
- Instrument documentation management and DataX support

Benefits

- Comprehensive instrument control, efficient and secure operation
- · Quick access to daily tasks
- · Easy method creation and editing
- · Efficient data management

LabX™ pro provides all the tools needed for your data management and storage according to FDA regulations (21CFR Part 11)

LabX AuditTrail



Audit Trail

The audit trail records every relevant action taken in the LabX™ system like logon, editing a method or data imports according to GLP/GMP. The audit trail can be exported as a PDF or text file.



Electronic signature

Each LabX document has a footer with approval and review information. Documents can be signed with an electronic signature.



User manager

Use this tool to create new users and assign rights to user groups. LabX™ also allows you to define your own password policies to enforce company guidelines.

For Fast Data Transfer

For quick and easy data transfer from your instrument to your data handling application (e.g. Excel®), METTLER TOLEDO presents the LabX $^{\text{\tiny M}}$ direct product line.



LabX™ direct balance transfers data from any METTLER TOLEDO balance equipped with an RS232 port into your chosen application. Can be used in conjunction with a barcode reader. User defined information can be automatically added to the data.



LabX™ direct moisture is designed for the collection and visualization of the data from any METTLER TOLEDO moisture analyzer. The drying curve is displayed on-line as the data is generated.



LabX" direct DE/RE collects and evaluates the data from bench-top and portable density meters and refractometers. Users of portable equipment will appreciate being able to collect data in the field and download results on return to base.



LabX™ direct pH supports the METTLER TOLEDO Seven series of bench-top and portable pH meters for collection and visualization of your data. Data of different measurement modes (pH, conductivity, DO, etc.) can be automatically separated into different files.



LabX™ direct quantos automatically exports all re-quired data from the METTLER TOLEDO Quantos powder dosing instrument into Excel® or any other Microsoft Office application. An additional data file is created to support the data transfer to connected LIMS systems.

www.mt.com/labx .

For more information

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Environmental management system according to ISO14001.



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