

Titration Excellence



Excellence Titrators

T5

T7

T9

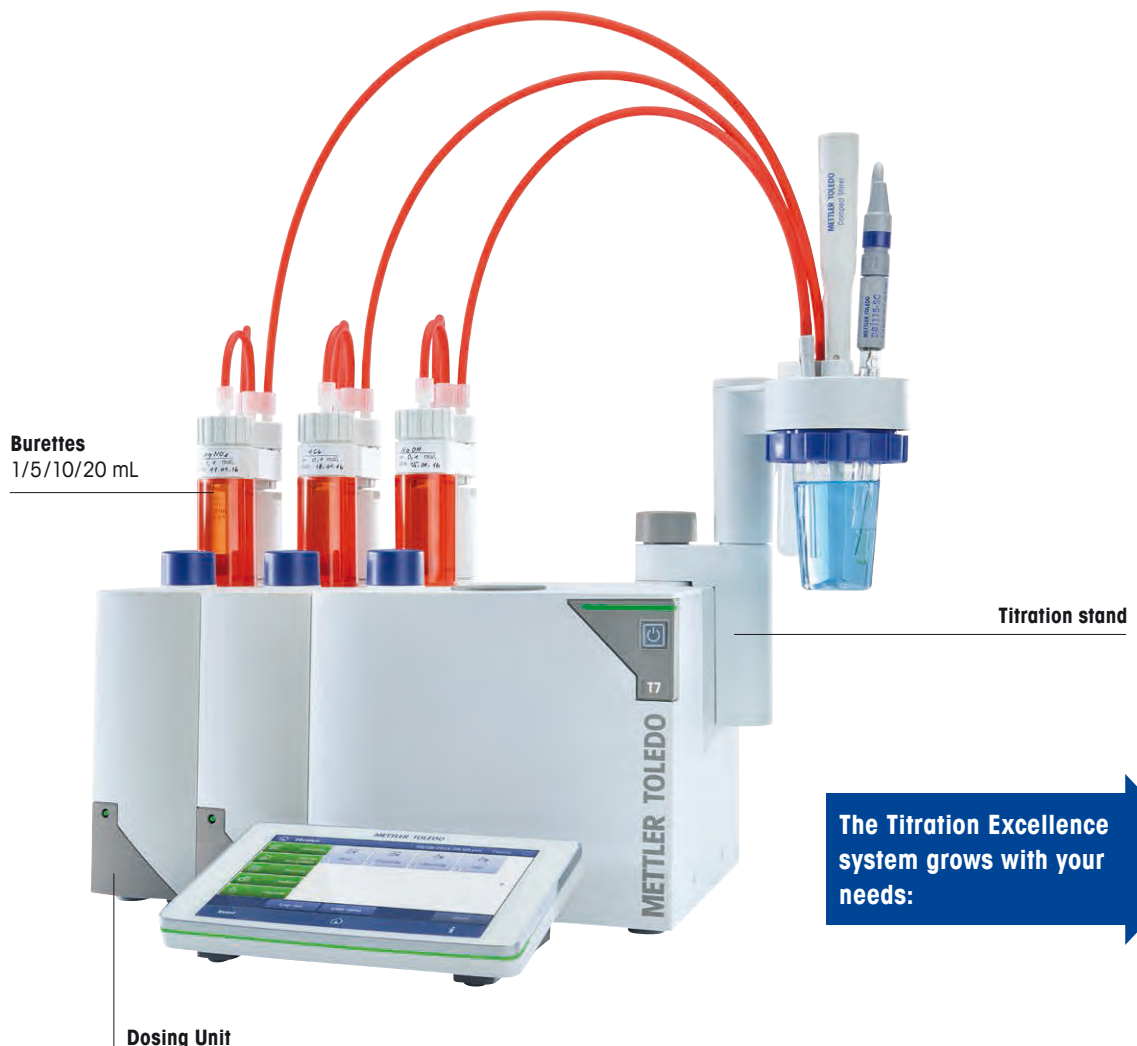
One Click[®] Titration

Efficient, Secure and Modular

METTLER TOLEDO

For Every Application The Right Combination

Demands put on the laboratory and plant can change very quickly. This is no problem at all if you have secured the METTLER TOLEDO Titration Excellence line in your process. The instrument can be optimally adapted to your new requirements thanks to its modular design concept.



Upgrade concept guarantees cost efficiency

The modularity of the Titration Excellence systems allows you the security of a system that can be adapted in the future to fit the needs of your laboratory. Should a burette drive or additional sensor board need to be added due to changing needs in the lab, simply upgrade the existing system.

Automation accessories



LevelSens
Level and Waste
Sensor



TV6 Valve
Liquid Sampling
Valve



Adapter Set
For Kinematica or
IKA Homogenizers



LogStraight
Fingerprint Reader

Software



PC software
LabX® Titration Server
LabX® Titration Express

Automation



InMotion™ KF
Oven Autosamplers



Liquid Handler
Dosing System



Rondolino
Automated titration
stand



InMotion™
Autosamplers

Pumps



SP280
Peristaltic pump



SD660
Membrane pump



Solvent Manager



USB printer



Analytical balance



USB-P25 printer

Printer / Balance

Plug & Play and classic sensors

Plug & Play

pH
DGi101-SC
DGi102-Mini
DGi111-SC
DGi112-Pro
DGi113-SC
DGi114-SC
DGi115-SC
DGi116-Solvent
DGi117-Water

Platinum
DMi140-SC
DMi144-SC
DMi147-SC
DMi101-Mini

Silver
DMi102-SC
DMi141-SC
DMi145-SC
DMi148-SC

Classic

pH
DG111-SC
DG113-SC
DG115-SC

Platinum
DM140-SC

Silver
DM141-SC
DM405-SC

KF
DM143-SC

Bromine Index
PT885-NS-S7/105

Surfactant
DS500
DS800-TwoPhase

Thermotrode™

Photrode™
DP5

Temperature
DT1000

Half cell/reference electrodes
DG300-SC
DX200
DX202-SC

Au805-S7/120
Sb850-S7/120

Conductivity
InLab®717
InLab®718
InLab®710
InLab®720
InLab®738
InLab®742



Expansion boards



pH/mV Sensor Board
Conductivity Board
Coulometer Board

Comparison Table

T5 – T7 – T9

The Titration Excellence line includes three models that are all based on the same platform. This guarantees that methods can be easily transferred to other instruments of the Titration Excellence line.

T5 –

Convenient and Versatile

Everything you need for titration, in two versions:

- T5: Manual stand and Terminal
- T5 Rondolino: Autom. titration stand Rondolino and Terminal
- All versions include pH board, integrated burette drive, integrated magnetic stirrer, compact stirrer and 10 mL burette.
- Expandable with up to three external burette drives for dosing purposes, one additional for titration purpose
- pH board exchangeable to conductivity or KF coulometer board
- Professional user management system
- Modern interfaces: USB, Ethernet and CAN-Bus
- Volumetric or coulometric Karl Fischer titration functionality

T7 –

Flexible and Expandable

Order the system that is exactly tailored to your needs:

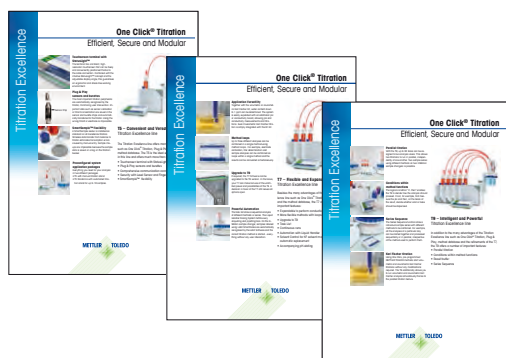
- T7 consisting of titrator with terminal, pH board and integrated burette drive
- All other components needed (titration stand, etc.) can be ordered as modules
- Expandable with a sensor board (pH, conductivity or coulometer), and up to three additional burette drives (for dosing and titration purposes)
- Possibility for later upgrade to T9
- Flexible method concept
- Simultaneous processing of different tasks possible (task list)
- Full volumetric and coulometric Karl Fischer titration functionality
- Series sequences for the easy processing of demanding and combined tasks

T9 –

Intelligent and Powerful

The powerful titration system that solves complex tasks easily and efficiently:

- T9 consisting of titrator with terminal, pH board and integrated burette drive
- All other components needed (titration stand, etc.) can be ordered as modules
- Expandable with two sensor boards (pH, conductivity or coulometer) and up to seven additional burette drives (for dosing and titration purposes)
- Parallel titrations
- Intelligent methods with "if...then" conditions
- Result buffer for method or series-overlapping calculations and synchronization of parallel analyses
- Solvent Control for KF solvent monitoring and replacement in One Click®



For additional information see the Datasheets T5, T7 and T9.



| Feature comparison table Titration Excellence line | | T5 | T7 | T9 |
|--|--|---------------------------|---------------------------|---------------------------|
| One Click® Titration | User specific Homescreen with Shortcuts | • | • | • |
| | Shortcuts per user ¹ | 24 | 24 | 24 |
| | KF Solvent Control | • | • | • |
| Hot Plug & Play | Solvent Manager | • | • | • |
| | USB printer | • | • | • |
| | USB memory stick | • | • | • |
| | USB barcode reader | • | • | • |
| Security | LevelSens | • | • | • |
| | LogStraight Fingerprint Reader | • | • | • |
| Automation | InMotion™ Autosamplers | • | • | • |
| | Liquid Handler | – | 1 | 2 |
| | Rondolino automated titration stand | • | • | • |
| Burette drives | InMotion KF Oven Autosamplers | – | • | • |
| | Max. number to dose and titrate | 1 (internal) + 1 external | 1 (internal) + 3 external | 1 (internal) + 7 external |
| | Max. number to dose only | + 2 external | | |
| Method and series | Max. number of user methods | 150 | 150 | 150 |
| | Learn titration | • | • | • |
| | Karl Fischer Methods Volumetric | V20S equivalent methods | • | • |
| | Karl Fischer Methods Coulometric | C20S equivalent methods | • | • |
| | Bromine Index determination | • | • | • |
| | Thermometric TAN | • | • | • |
| | Accompanying staling | – | • | • |
| | Ion Standard addition | • | • | • |
| | SmartChemical | • | • | • |
| | SmartSample | • | • | • |
| | Number of method functions per method | 15 | 60 | 150 |
| | Number of loops per method | 1 | 3 | 6 |
| | Continuous run | – | • | • |
| | if...then conditions | – | – | • |
| | Result buffer | – | – | • |
| | Series sequences | – | 10 | 10 |
| | Number of samples per series | 303 | 303 | 303 |
| | Predefined METTLER TOLEDO methods | >60 | >70 (incl. KF methods) | >70 (incl. KF methods) |
| | Task list | Number of tasks | 10 | 10 |
| Number of tasks running in parallel | | – | 7 | 8 |
| Online help | | • | • | • |
| Parallel titration including KF | | – | – | • |
| Expandable | | – | to T9 | – |
| Status light and event sounds | | • | • | • |
| Data Export/Printing | RS-232, USB, Ethernet, PDF | • | • | • |
| Sensor Boards | pH/mV or conductivity or coulometry | 1 | 2/1 ² | 3/1 ² |
| | Potentiometric | 2 | 4/2 ² | 6/2 ² |
| | Polarized | 1 | 2/1 ² | 3/1 ² |
| | Reference | 1 | 2/1 ² | 3/1 ² |
| | PT1000 | 1 | 2/1 ² | 3/1 ² |
| | Conductivity | 1/0 ² | 2/0 ² | 3/0 ² |
| PC software | LabX® Titration connectivity: Express and Server | • | • | • |
| Homogenizer | | TTL | RS/TTL | RS/TTL |
| Languages | English / German / French / Spanish / Italian / Chinese / Russian / Polish / Korean / Portuguese | | | |

¹ Unlimited with T5, T7 and T9 titrators when connected with LabX® Titration Software

² 4/2 means for example: maximum number of inputs is 4, 2 are already available in standard delivery