

915 KF Ti-Touch / 916 Ti-Touch



Compact titrator for routine analysis

Technical specifications

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	916 Ti-Touch	915 KF Ti-Touch
Intelligent Exchange Unit/Dosing Unit with integral Data Chip	Max. 2 x 800 Dosino or 2 x 805 Dosimat	
Dosing steps per cylinder volume (resolution)	800 Dosino: 10'000 Pulse 805 Dosimat: 20'000 Pulse	
Operation, dialogue	Touch Control	Touch Control
Stirrers, titration stand	Incl. 802 Rod Stirrer Additionally 1 x 801 Magnetic Stirrer or 1 x 802 Rod Stirrer or 1 x 803 KF Titration Stand	Integral Magnetic Stirrer Additionally 1 x 801 Magnetic Stirrer or 1 x 802 Rod Stirrer or 1 x 803 KF Titration Stand
Integral membrane pump	–	yes
Attachment of Dosimats, Dosinos, Stirrers	2 MSB-Ports (Metrohm Serial Bus, Daisy Chain)	
Attachment of Sample Changer	1 Sample Changer via USB	
Attachment of balances, printer, PC, PC keyboard, barcode reader	Via USB Slave Port, USB/RS-232 Converter (optional)	
Generation of forge-proof PDF reports without PC	yes	
USB stick for saving methods, results und PDF reports	yes	
Ethernet access to connect to a local network for data archiving or printing on a network printer	yes	
Temperature sensor	Pt1000 or NTC	
«iTrodes» – intelligente electrodes	yes	–
GLP compliant electrode test	yes	–
I_{pol} and U_{pol} – integral programmable polarizer	yes	
Real-time curve on the Touch Control (90 mm x 120 mm, high-res display)	yes	
DET Dynamic Equivalence-point Titration	yes	–
MET Monotonic Equivalence-point Titration	yes	–
SET Titration to a preset endpoint with automatic conditioning	yes	–
MAT Manual Titration	yes	–
KF Volumetric Karl Fischer titration with automatic conditioning	–	yes
MEAS Measuring mode for pH, U/mV, T/°C	yes	–
CAL Calibration with automatic buffer recognition	yes	–
MEAS Measuring mode for I_{pol} and U_{pol} , T/°C	–	yes
Method and sample data memory, result memory data base	yes	
Dialog languages: English, German, Spanish, French, Chinese	yes	
Favorites for quick method access (One Touch Titration)	14 (per user)	



Ti-Touch – finally, titration reduced to the max!

«Reduce to the max» – this is the principle of the Ti-Touch. The new compact titrator from Metrohm offers simply more than any other stand-alone titrator for routine analysis:

- **Maximum system integration:** buret, stirrer, dosing system and control module in a single unit.
- **Maximum data security plus network integration – and no need for a PC!**
 - Generate forge-proof PDF reports and save them on a USB stick or in the intranet
 - Ethernet access: save your methods and results directly in your LIMS or intranet
 - USB interface: simply connect a printer, USB stick or a barcode reader
- **Maximum user safety:** contact-free reagent exchange due to patented Dosino technology
- **Maximum ease of use:** 14 user-specific icons to start favorite methods at a single touch

916 Ti-Touch – compact titrator for potentiometric titration

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The 916 Ti-Touch is the new compact titrator for potentiometric titration. The instrument supports the following titration modes: DET (dynamic equivalence point titration), MET (monotone equivalence point titration), SET (titration to one or two given endpoints) and MAT (manual titration). The new compact titrator comes in the versions 916 Salt Ti-Touch, 916 Oil Ti-Touch and 916 Food Ti-Touch, which are all-inclusive packages containing the titrator plus the complete accessories for the respective applications.

- **Save and print data – without PC**

USB interface for printer, USB stick or barcode reader.

- **Direct access to intranet and LIMS – without PC**

Save methods and results directly in your intranet or LIMS.

- **Straightforward automation**

Up to 100 samples can be determined unattended (with 814/ 815 Sample Processor).

- **Plug-and-play**

All system components are instantly recognized and ready for use.

- **More efficiency due to 2 MSB ports**

2 MSB (Metrohm Serial Bus) ports for connecting up to 2 800 Dosinos or 805 Dosimats, 2 Magnetic or Rod Stirrers and 2 Remote Boxes for automation.



- **Contact-free Reagent exchange**

No contact with reagents due to patented 800 Dosino technology.

- **Intelligent stirrer**

Rotational speed of stirrer automatically adapted.

- **Incorrect results excluded**

All system components as well as measured results are monitored.

- **tiBase titration database for perfect workflow**

Put results on a USB stick or in your network and then manage them in **tiBase**.

- **Paperless PDF reports**

Generate forge-proof PDF reports and save them on a USB stick or in the intranet.

- **Personalized Touch-screen for fast method start**

Up to 14 methods can each be linked to a favorite icon on the touchscreen. Methods start at a single touch.



915 KF Ti-Touch – compact titrator for Karl Fischer titration

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The 915 KF Ti-Touch is the Karl Fischer version of Metrohm's new stand-alone titrator for routine analysis. Just as in the 916 Ti-Touch, the buret, stirrer, dosing system and operation module of the 915 KF Ti-Touch are cased in single, compact unit. This is not only handy but also saves valuable benchspace.

- **Straightforward automation**

Straightforward automation of applications with 814 and 815 Sample Processor.

- **Paperless PDF reports**

Generate forge-proof PDF reports and save them on a USB stick or in the intranet.

- **Save and print data – without PC**

USB interface for printer, USB stick or barcode reader.

- **Personalized Touch-screen for fast method start**

Up to 14 methods can each be linked to a favorite icon on the touchscreen. Methods start at a single touch.

- **Plug-and-play**

All system components are instantly recognized and ready for use.

- **Direct access to intranet and LIMS – without PC**

Save methods and results directly in your intranet or LIMS.





- **Contact-free reagent exchange**

Contact with KF reagents is avoided due to patented 800 Dosino technology.

- **KF icons tell what's going on**

KF icons on the touchscreen show, if the instrument is still conditioning or if the titration can be started.

- **tiBase titration database for perfect workflow**

Put results on a USB stick or in your network and then manage them in *tiBase*.

- **«Safety stop» prevents titration cell from overflowing**

Overflowing of the titration cell during conditioning is prevented in the 915 KF Ti-Touch due to the «safety stop»-feature. If, e.g., the electrode has not been connected correctly or there is moisture in the titration cell, conditioning stops automatically after a short time or after a certain amount of Karl Fischer reagent has been added.

- **Empty and fill titration cell at a push of a button**

Thanks to the integrated pump the titration cell can be emptied and filled again with fresh solvent at the push of a button.



Ordering information

All-inclusive packages* 916 Ti-Touch

- 2.916.2010 916 Salt Ti-Touch
All-inclusive package for the argentometric titration of chloride
- 2.916.3010 916 Oil Ti-Touch
All-inclusive package for the non-aqueous acid-base titration of oil products
- 2.916.4010 916 Food Ti-Touch
All-inclusive package for the aqueous acid-base titration in foodstuffs

All-inclusive package 915 KF Ti-Touch

- 2.915.0110 915 KF Ti-Touch
All-inclusive package** for volumetric KF Titrations

Optional accessories

- 2.800.0020 800 Dosino
as additional buret for titration or addition of auxiliary solutions
- 2.805.0010 805 Dosimat
as additional buret for titration or addition of auxiliary solutions
- 6.3026.110 Intelligent exchange unit 1 mL
- 6.3026.150 Intelligent exchange unit 5 mL
- 6.3026.210 Intelligent exchange unit 10 mL
- 6.3026.220 Intelligent exchange unit 20 mL
- 6.3026.250 Intelligent exchange unit 50 mL
- 6.3032.120 Intelligent dosing unit 2 mL
- 6.3032.150 Intelligent dosing unit 5 mL
- 6.3032.210 Intelligent dosing unit 10 mL
- 6.3032.220 Intelligent dosing unit 20 mL
- 6.3032.250 Intelligent dosing unit 50 mL
- 6.2148.010 Remote Box MSB
- 6.2148.050 USB/RS-232 Converter
- 6.2151.030 Cable USB A – USB B /0,6 m

* all-inclusive package contains 800 Dosino, 20 mL Dosing Unit, iConnect, i-Trode, Rod Stirrer, **tiBase** Demo version and detailed collection of applications.

** all-inclusive package contains 800 Dosino, 10 mL Dosing Unit, electrode, accessories for safe reagent exchange and **tiBase** Demo version.