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Compact Titrators

High Performance for Routine Analysis



Fig. 1: One-touch titration

Metrohm introduced the Ti-Touch, a totally new instrument series of high-performance compact titrators for routine analysis. It offers simply more than any other stand-alone titrator for routine analysis. Even at the first glance, you notice how highly integrated the new titrator is. Everything you need is cased in a single compact unit: dosing unit (burette), stirrer, and Touch Control operating unit.

Titrator for Potentiometry

The 916 Ti-Touch is designed for potentiometric titration. The instrument supports the titration modes DET (dynamic equivalence-point titration), MET (monotonic equivalence-point titration), SET (titration to one or two previously set endpoints), and MAT (manual titration).

As a stand-alone titrator, the instrument offers more possibilities than all other currently commercially available systems. The same applies to the 915 KF Ti-Touch for the Karl Fischer titration. The increased functionality is particularly evident in data administration and communication. Although other instruments require the use of a PC, the stand-alone titrator totally dispenses with this aid, which is anyway being increasingly banned from the laboratory. Using the integrated Ethernet interface, methods and results can be directly stored in the Intranet or LIMS, where they can be administered. An extremely practical feature unique to the Ti-Touch series is the PDF report that a user can generate just by pressing a button. This means that your results are documented and cannot be falsified. The USB interface lets you connect additional instruments such as a printer or barcode reader etc. directly to the Ti-Touch. Moreover, data can be stored on a USB stick and be read from the stick at any time as required.

Apart from the variety of different communication modes, the Ti-Touch also offers maximum ease of use. It is operated and controlled via the touch screen of the integrated touch control operating unit. The user can link up to 14 methods with their favorite icon on the personalized touch screen. Thus, frequently used methods can be comfortably and rapidly started with a simple touch of the corresponding icon.

The Ti-Touch also sets new standards in user safety. This is principally due to the 800 Dosino





Fig. 3: With the large number of interfaces, the 916 Ti-Touch offers high functionality and can be used flexibly.



Fig. 2: Compact 916 Ti-Touch for potentiometry

with its patented dosing technology. This not only eliminates air bubbles that are unavoidable with other dosing systems but also allows for contact-free reagent exchange. With so much safety and comfort, it is almost obvious that all components of the system are based on the plug-and-play principle and are permanently monitored during operation – as are the measurement results. This minimizes operating errors and helps to ensure rapid detection of any malfunction.

The Ti-Touch can be operated fully automatically with sample changers of families 814 and 815. Up to 100 samples in a series can be processed.

To help you to start at once, we are offering you the new compact titrator as a practical package including the complete set of accessories required: 916 Salt Ti-Touch for the argentometric titration (e.g., of chloride), 916 Oil Ti-Touch for nonaqueous acid-base titration of oil products, and 916 Food Ti-Touch for aqueous acid-base titration (e.g., in foodstuffs).

The Karl Fischer Titration version

The Karl Fischer titrator version 915 KF Ti-Touch has the following features: the dosing unit (burette), stirrer, and touch control operating unit are cased in a single compact unit. This is practical and saves space on the laboratory bench.

The instrument lays the greatest emphasis on user safety. For example, the parameter «Safety Stop» prevents the titration cell from running over during conditioning. If the electrode is wrongly connected or if the titration cell is moist, the conditioning is automatically ended after a specific period or the addition of a specific volume of KF reagent. Special KF icons inform the user whether the instrument is still conditioning or whether the water determination can already be started. In addition, an integrated pump ensures that the titration cell is emptied when the button is pressed and can then be refilled with fresh solvent.

The Karl Fischer version can administer and communicate data just as well as the version for potentiometric titration. The titrator can be incorporated into a network via its Ethernet interface. The USB port permits the direct connection of additional instruments such as printer, barcode reader, balance, etc. On the press of a button, reports in PDF format are produced. With all these characteristics, no PC is needed in the laboratory.

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