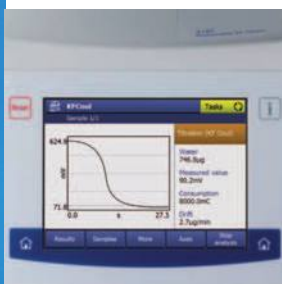# One Click® Water Determination
Simple and Secure

One Click® User Interface
The large color touchscreen features the simple-to-understand and fast-to-operate One Click user interface. All users have their own homescreen with dedicated shortcut buttons to directly start specific routine tasks.
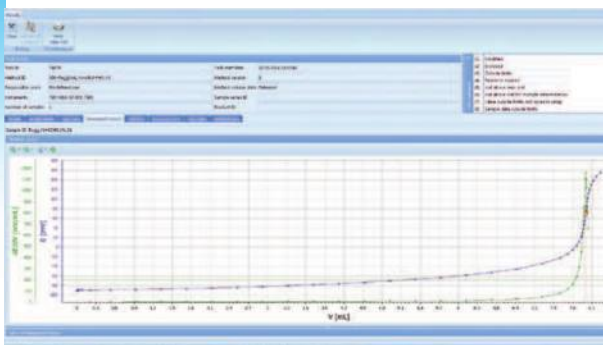
Solvent Manager
Users are protected against contact with chemicals using the Solvent Manager liquid handling device. It is fully controlled by the titrator and allows reagents to be removed with minimal user interaction.

Diaphragmless cell
The user has the choice of a current generator cell with or without a diaphragm. For most samples the cell without a diaphragm offers more convenience, as no catholyte is needed. Due to the unique design, the diaphragmless cell even meets the demands of very precise low water content determinations.

PC software LabX® Titration
Full control over the titrator, secure database archiving, networking, efficient result management with control charts and individual search filters or rapid and clear method development are only some aspects of the powerful LabX Titration PC software.

C20S Compact KF Coulometer

The Routine Karl Fischer Coulometer combines fast and precise water content determination with very simple operation. Samples from any industry with water content between 1 ppm and 5% are analyzed in single measurements or as sample series with statistics.
• Color touchscreen with One Click user interface
• User interface in English, German, French, Spanish, Italian, Chinese, Russian, Polish, Korean and Portuguese
• Generator cell with or without diaphragm available
• Connectivity to LabX Titration PC software via USB or direct Ethernet (TCP/IP)
• Common USB printers or the USB-P25 compact printer for secure and GLP-compliant paper recording

METTLER TOLEDO

Functionality Overview

		C20S
Application	Liquid and gaseous samples	•
	Resources and method database	•
One Click® Titration	User specific Home Screen with Shortcuts	•
	Shortcuts per user	12
	Reagent Control	−
Hot Plug & Play	Solvent Manager	•
	USB printer DIN-A4/US letter / USB-P25 compact printer	•
	USB memory stick / USB barcode reader / USB hub	•
Security	LevelSens	−
	LogStraight Fingerprint Reader	−
Automation	InMotion KF Oven Autosamplers	−
User Management	"Expert – Routine" user groups	•
Methods and series	Preprogrammed METTLER TOLEDO methods	−
	KF standard methods	1
	Max. number of user methods	5
	External extraction/dissolution dedicated method type	−
	Bromine Index determination	−
	Number of method functions	12
	Number of samples per series	120
	Autostart: automatic start after sample addition	•
	Max. number of calculations/results per method	3
	User defined calculations	−
	Statistics of up to 120 samples including result limits check, outlier test	•
	Extra statistical functions as max. srel and multiple determinations	−
	Recalculation of results	•
	Data in Online Screen: time, water count, potential, stirrer speed, consumption, drift	•
	Data in measured value table: time, water count, potential, consumption, drift	•
	Curves in Online Screen and printout: E-C, E-t, C-t, drift-t, water count-t	•
Task list	Number of tasks queued	−
Online Help	Context sensitive parameter explanation	•
Data Export	USB, Ethernet, PDF	•
Languages	User interface and printouts in English, German, French, Spanish, Italian, Chinese, Russian, Polish, Korean, Portuguese	•
PC software	LabX® Titration Express and Server	•
Communication	Ethernet (TCP/IP)	1
	COM (serial balance connection)	1
	USB host (printer, memory stick, barcode reader, hub)	2
	USB client (PC)	1
	Integrated Magnetic Stirrer	1
	Pump / Stirrer	1

- exclusive C30S functionality

Technical Specifications

Polarized sensor input	Measurement range	-2000…+2000 mV
	Resolution / Limits of error	0.1 mV / 2 mV
	Polarization current range	0…24 µA
	Polarization current resolution / Limits of error	0.1 µA / 1 µA
Environment	Ambient temperature	+5…+40 °C
	Atmospheric humidity	max. 80% at 31 °C
Titrator dimensions	Width x depth x height / Weight	210 x 340 x 312 mm / 3.3 kg
	Glass beaker	200 mL
Control and display	Touchscreen	VGA 5.7" color TFT, 640 x 480 pixel
Application (depends on the environment and handling)	Drift measurement	Online, < 2 µg/min
	Measurement range	10 µg…200 mg
	Resolution	0.1 µg
	Repeatability	0.3% at >1 mg H_2O

ISO 9001 registered
ISO 14001 registered
CE