Pipette Checks
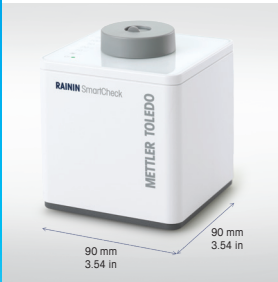
Reduce Risk with SmartCheck
Fast, Easy Pipette Verification

Verify Any Brand of Pipette

Use SmartCheck to verify the performance of any brand of pipette that dispenses volumes between 10–1,000 µL. Verify individual channels of multichannel pipettes too.

Small Footprint

SmartCheck fits easily alongside other equipment on the bench. The convenient size makes it easy to test a pipette to be sure it is performing to tolerance before starting an experiment.

90 mm
3.54 in

90 mm
3.54 in

Avoid Rework

Verifying the performance of a pipette before working with precious reagents saves time and money. In less than 60 seconds you will know if a pipette is aspirating and dispensing correctly.

Reduce Risk

In regulated environments, discovering a pipette is out of tolerance can prompt a time-consuming and costly investigation. SmartCheck provides reassurance that the pipette you are using is performing as expected.

Trust Your Pipettes
Save Time and Reduce Risk

Between calibrations, SmartCheck™ provides a fast, practical way to verify that a pipette is dispensing accurately. And it is simple: dispense deionized water into the opening and SmartCheck automatically detects the test volume, then prompts the user to dispense the same volume three more times. From start to finish, SmartCheck delivers a pass/fail result in less than 60 seconds. SmartCheck is also perfect for training and improving pipetting technique.

Reduce your risk of experimental failure and improve reproducibility. Check pipettes regularly for the best possible experimental results—every time.

METTLER TOLEDO

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Reliable Pipette Checks within Seconds

1. Set the pipette to its nominal volume, then, using deionized water, pipette that volume into SmartCheck's vessel.

2. After automatically detecting the volume, SmartCheck prompts you to dispense the same volume three more times.

3. SmartCheck runs a number of calculations, and then clearly indicates Pass or Fail.

Technical Data

SmartCheck

Pipette test volumes	10, 20, 50, 100, 200, 300, 1,000 µL	
Pipette types	Single, multi (per channel), stepper	
Test tolerance (factory default)	5%*, adjustable 3–10%**	
Test volumes	10 µL	20, 50, 100, 200, 300, 1000 µL
Tolerance range per volume	9–10%	3–10%
Measurement principle	Gravimetric, 4 volumetric measures, using deionized water (ISO 3696) equivalent to or better	
Reproducibility Limit (SD)	0.15 µL @ 1000 µL	
Typical (SD)	0.08 µL @ 100 µL	
Liquid chamber capacity	10 mL	
Temp. range/humidity range	15–30 °C/40–70%	
Power/connection	100–240 V AC 5 V DC/USB 2.0	
Dimensions (L×W×H)	3.54×3.54×4.21 in	

* Tolerance range not applicable for 10 µL
** With PipetteX software

Ordering Information

SmartCheck – SLS1010S	30564095
Function test kit	30448961
RFID EasyScan LAN set	30448967
PipetteX software	www.mt.com/PipetteX
Vessel and draft shield set	30580649
Power plug set	30580650
Transport box	30580651

Works with

PipetteX

mt.com/PipetteX

Integrated pipette management

When used in conjunction with PipetteX™, the pipette calibration and verification data you collect using SmartCheck is automatically recorded into each pipette's calibration and service record.

PipetteX is a comprehensive PC-based system for managing entire pipette inventories. It's as easy to use in one lab as it is tracking and managing many labs across multiple locations.

▶ **www.mt.com/PipetteX**

How does SmartCheck work?

Not only is SmartCheck fast—it is the only automatic ultra-compact verification tool available. SmartCheck takes volumetric measurements that are weighed using the gravimetric method and calculates the random and systematic error based on four measurements. It then determines the measured uncertainty of the delivered volume in percentages, comparing it to the pipetting tolerance in percentages, yielding a quick pass/fail statement of the instrument and user within 60 seconds.

▶ **www.mt.com/GPP**

www.mt.com/SmartCheck

For more information