

# SmartCheck + PipetteX

## Know Your Pipettes Are Accurate



### 21 CFR Part 11 compliant

Enjoy fully 21 CFR Part 11 compliant routine test reports with PipetteX™ and SmartCheck™. Get insights on how your pipettes are performing between calibrations.



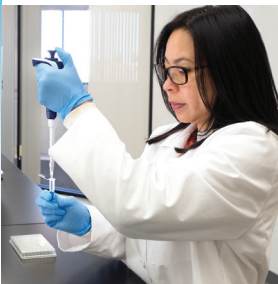
### Connect without PC

PipetteX can capture results from SmartCheck without the need for a PC nearby. SmartCheck connects to your network via the EasyScan LAN gateway.



### Speed up, use RFID

Gain up to 50% time savings by using RFID to identify your pipette, setting individual measuring tolerances on SmartCheck, and unlocking the SmartCheck for a routine test. Results are assigned automatically to the pipette's history.



### Better results

Experimental reproducibility is the cornerstone of life science research. Along with verifying a pipette's performance in advance of an important experiment, SmartCheck also helps show whether an individual's pipetting technique is consistent. It's especially helpful for researchers new to pipetting.



### Trust Your Pipettes

#### A Simple and Reliable System

Testing pipette accuracy used to be difficult, requiring a balance and time-consuming calculations. Now, SmartCheck and PipetteX, any researcher can test their pipette and get a Pass/Fail result in less than 60 seconds.

Compact for the benchtop and precision-engineered for accuracy, SmartCheck compares dispensed volumes to tolerances stored in PipetteX. PipetteX records the results and helps you catch drifting or out-of-spec pipettes early. Gain full confidence in the largest group of assets in your lab with SmartCheck and PipetteX!

## Streamline pipette performance management



**Step 1:** Scan pipettes with an RFID reader or enter data directly.



**Step 2:** Use SmartCheck to test pipettes to your lab's tolerances



**Step 3:** PipetteX records results, updating each pipette's performance history.

## 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%*   |
| Liquid chamber capacity          | 10 mL  |
| Measurement principle            | Gravimetric, 4 volumetric measures, using deionized water ASTM Type II equivalent to or better |
| Reproducibility                  | Limit (SD)   |
|                                  | Typical (SD)   |
| 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  |

\* With PipetteX software

## Ordering Information

| SmartCheck – SLS1010S               | 30564095 |
|-------------------------------------|----------|
| Function test kit                   | 30448961 |
| RFID EasyScan LAN set               | 30448967 |
| Liquid chamber and draft shield set | 30580649 |
| Power plug set                      | 30580650 |
| Transport box                       | 30580651 |
| PipetteX – Site license             | 30475913 |
| PipetteX – Unlimited license        | 30475915 |
| PipetteX – Audit trail license      | 30587187 |

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### 21 CFR Part 11 compliant

SmartCheck is designed to fit into both research and regulated environments. Paired with the applicable PipetteX license, the system can be made 21 CFR Part 11 compliant.

### Why check pipettes – and technique?

Not knowing if a pipette is performing within tolerances or if a user's technique is consistent are two uncertainties that can lead to non-reproducible results. Rework may be required, and there may be even more significant consequences. SmartCheck verifies pipette performance and offers users a way to improve pipetting consistency. PipetteX records whether tolerances are adhered to by your individual users and possible discrepancies.

### How does SmartCheck work?

SmartCheck takes four volumetric measurements using the gravimetric method, then compares the measurements to the pipette's tolerance in percentages. It calculates random and systematic error to determine the measured uncertainty of the delivered volume. A routine test takes about a minute, and SmartCheck yields a Pass/Fail result within a few seconds.

### METTLER TOLEDO Group

Local contact: [www.mt.com/contacts](http://www.mt.com/contacts)

Subject to technical changes  
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17701044 Rev A

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For more information