

PLT™ Pipette Leak Testing Unit



Improve process reliability with functional validation of air-displacement pipettes

The most frequent cause of inaccuracy in piston-operated pipettes is leakage. This arises from damage either to the seals, pistons, or tip cones. Often not detectable by the naked eye, leaks lead to significant volume errors. The BRAND PLT™ Pipette Leak Tester (patent pending) detects even the smallest leaks in air displacement pipettes within seconds.

- Limit values for all common sizes of single and multichannel pipettes in the volume range 1µL to 10mL are pre-programmed
- Test with or without tips
- Results in seconds

To ensure accurate results, air-displacement pipettes must be checked at regular intervals and the results must be compared with the ISO 8655-2 error limits. However, a calibration certificate only reflects the results at the time of testing. The time between calibrations is crucial, since leaks can occur at any time. Well over 80% of pipettes sent in for repair have leaks and are outside their volume tolerances, even if they do not drip.

While the PLT unit cannot replace regular gravimetric testing, daily pipette checks can provide a safeguard during the periods between calibrations. Even the smallest leaks are detected and quantified! Process reliability for the pipettes is thus significantly improved.

Testing with and without the tip

To check the overall pipette system, the test is conducted with a tip mounted. When a leak has been identified, the test can be repeated without a tip to determine whether the leak arises from the tip cone/tip coupling region.

Dynamic or static test?

Dynamic test the pipette button must be pushed down numerous times during the measurement period.

In the **static test**, the pipette button is not pressed during the test procedure, i.e. the piston does not move.



Single-channel adapter

Display

"Start/Execute" button

LED display

"Back" button

Select knob



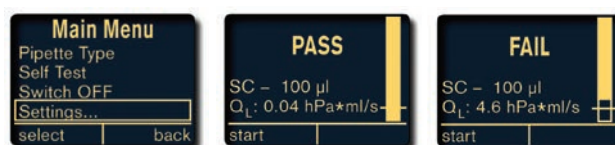
Single-channel adapter for pipettes with tip mounted

Single-channel adapter for pipettes without tip

PE filter in single and multichannel adapters

Multichannel adapter for pipettes with and without tip

NEW PLT Connect Software allows tracking of instruments and



Quantifiable results are generated, with pass/fail criteria for each pipette size, based on over 35 years of experience.

Items supplied:

The PLT unit is supplied with universal power supply (100-240V, 50/60Hz), single-channel adapters for testing with and without tips and carrying/storage case.

Description	Cat. No.	2016 List Price
PLT Pipette Leak Testing Unit	703970	\$1,499.00
Multichannel Pipette Adapter, Pack of 1	703977	215.01
Filters, PE, for Pipette Adapter, Pack of 10	703978	11.21
NEW! PLT Connect Software	703980	225.00