

Primary Calibrators



Personal sampling pumps are key tools for exposure assessment. The accuracy of sampling depends on how much air passes through the sampling media and good laboratory analysis. As a common practice, sampling pumps should be calibrated before and rechecked after sampling using a calibration device.

TSI offers two Primary Calibrator models for calibrating pumps or any other air sampling instrument that draws an active air sample. The Model 4146 Primary Calibrator offers a range of 0.01 to 20 lpm and the Model 4046, from 2.5 to 300 lpm.

These small, portable, battery-operated units are lightweight and easy to use. Volumetric flowrate is displayed continuously so adjustments to pump flow can be made in real-time. These Primary Calibrators are temperature-compensated and pressure-corrected to calculate volumetric flow rate at an accuracy within 2% of reading.

Primary Calibrator kits are available complete with a soft-sided carrying case, battery pack, tubing, user guide and NIST-traceable calibration certificate.

Specifications

Flow Measurement Range

Model 4146	0.01 to 20 lpm
Model 4046	2.5 to 300 lpm

Accuracy

Model 4146	$\pm 2\%$ or 0.005 std. lpm, whichever is greater
Model 4046	$\pm 2\%$ or 0.05 std. lpm, whichever is greater

Dimensions

Model 4146	5 in. \times 2 in. \times 1.25 in. (12.7 cm \times 5 cm \times 3.2 cm)
Model 4046	7.2 in. \times 2.5 in. \times 2.1 in. (18.3 cm \times 6.4 cm \times 5.3 cm)

Shipping Weight

Model 4146	2.2 lbs (1.0 kg)
Model 4046	3.0 lbs (1.1 kg)

Warm-up Time

1 min

DC Power Input

7.5 VDC \pm 1.5 V, 300 mA max

Specifications are subject to change without notice.



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