

## 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. These small, portable, battery-operated units are lightweight and easy to use. Volumetric flowrate is displayed continuously, making pump adjustment, calibration and periodic flow checks fast and easy 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	±2% or 0.005 std. lpm, whichever is greater
Model 4046	±2% or 0.05 std. lpm, whichever is greater

#### Dimensions

Model 4146	5 in. × 2 in. × 1.25 in. (12.7 cm × 5 cm × 3.2 cm)
Model 4046	7.2 in. × 2.5 in. × 2.1 in. (18.3 cm × 6.4 cm × 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 ±1.5 V, 300 mA max

Specifications are subject to change without notice.



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