

chek-mate FLOWMETER

- Three models available
 - High Flow: 5 to 30 L/min
 - Medium Flow: 0.50 to 5 L/min
 - Low Flow: 20 to 500 ml/min
- CalChek® capability in medium and high flow models provides direct communication to CalChek-ready pumps for automatic flow rate verification/calibration
- Certified volumetric accuracy is 1% of reading for ranges of 5 to 30 L/min (high flow), 750 to 5000 ml/min (medium flow), and 50 to 500 ml/min (low flow)
 - 2.5% accuracy outside of above ranges
- Average flow display feature
- Built-in sensors adjust for changes in temperature and atmospheric pressure
- Calibrated against NIST, UK, or ISO national standards in an ISO 17025-accredited laboratory
 - NIST, UK, or ISO standards traceable calibration certificate supplied
- Sleek design for flow rate verification anywhere, anytime
 - 7.1 x 3.3 x 1.3 inches (18 x 8.3 x 3.3 cm)
 - Models under 9 ounces (255 grams)
 - Compact for handheld use
- 9-volt alkaline battery operation
 - Auto shut-off feature
- No moving parts, use in any orientation
- Internal filter protects components from dust



Low flow chek-mate shown with Pocket Pump TOUCH sample pump



How chek-mate Works

The highly accurate SKC chek-mate Flowmeters are reliable differential pressure airflow meters that incorporate sensors to measure pressure drop across a fixed orifice. Sensors automatically correct for changes in air temperature and atmospheric pressure to provide accurate volumetric flow rate readings without the inconveniences of piston-style flowmeters.

chek-mate Flowmeters with CalChek Feature

The CalChek feature allows direct communication between chek-mate Flowmeters and CalChek-ready sample pumps. With the CalChek Cable connected directly between the Leland Legacy pump or an AirChek TOUCH Standard or e-Cradle, CalChek automatically verifies flow at a single flow point or calibrates across the pump's flow range.

Performance Profile

Principle of Operation: Differential pressure measurement of pressure drop across a fixed orifice

Flow Measurement Range (volumetric):
High Flow: 5 to 30 L/min
Medium Flow: 0.5 to 5 L/min
Low Flow: 20 to 500 ml/min

Display Resolution: High Flow: 0.01 L/min
Medium Flow: 0.001 L/min
Low Flow: 0.01 up to 100 ml/min and 0.1 above 100 ml/min

Accuracy: ±1% of reading (2.5% outside of listed ranges for Medium Flow and Low Flow models)
High Flow: 5 to 30 L/min
Medium Flow: 750 to 5000 ml/min
Low Flow: 50 to 500 ml/min

Operating Temperature Range: 32 to 104 F (0 to 40 C)

Operating Atmospheric Pressure: 20.7 to 32.2 inches Hg (700 to 1090 mbar)

Operating Altitude: Sea level to approx. 10,000 ft (3050 m) above sea level

Power: One disposable 9-V alkaline battery (PP3/6LR61/1604A or equivalent) or rechargeable 8.4-V NiMH battery (PP3/6HR1/8.4H5 or equivalent)

Run Time: Approximately 30 hrs, dependent on battery

Certifications: CE, UKCA

Dimensions: 7.1 x 3.3 x 1.3 in (18 x 8.3 x 3.3 cm)

Weight: Medium Flow - 8.3 oz (236 gm)
Low Flow - 8.2 oz (232 gm)
High Flow - 8.6 oz (244 gm)

Ordering Information

Description	Flow Range	Cat. No.
High Flow chek-mate Flowmeter with CalChek Feature includes a 9-volt alkaline battery, (<i>CalChek Cable sold separately; see below. Flowmeter hosetail is a larger diameter for higher flow pumps.</i>) <ul style="list-style-type: none">with UK standard traceable calibration certificatewith NIST standard traceable calibration certificatewith ISO standard traceable calibration certificate	5 to 30 L/min	375-50300
Kit with UK standard traceable calibration certificate and pulsation dampener Cat. No. 375-150		375-50300N
Kit with NIST standard traceable calibration certificate and pulsation dampener Cat. No. 375-150		375-50300S
Kit with ISO standard traceable calibration certificate and pulsation dampener Cat. No. 375-150		375-50300K
Medium Flow chek-mate Flowmeter with CalChek Feature includes a 9-volt alkaline battery <ul style="list-style-type: none">with UK standard traceable calibration certificatewith NIST standard traceable calibration certificatewith ISO standard traceable calibration certificate	0.50 to 5 L/min	375-50300-KN
Kit with UK standard traceable calibration certificate and pulsation dampener Cat. No. 375-100		375-50300-KNS
Kit with NIST standard traceable calibration certificate and pulsation dampener Cat. No. 375-100		
Kit with ISO standard traceable calibration certificate and pulsation dampener Cat. No. 375-100		
Low Flow chek-mate Flowmeter includes a 9-volt alkaline battery <ul style="list-style-type: none">with UK standard traceable calibration certificatewith NIST standard traceable calibration certificatewith ISO standard traceable calibration certificate	20 to 500 ml/min	375-0550
		375-0550N
		375-0550S
		375-0550K
		375-0550-KN
		375-0550-KNS
Accessories		
CalChek Communication Cable use with Cat. Nos. 375-0550N, 375-0550, 375-0550S, 375-50300N, 375-50300, and 375-50300S, required for CalChek automatic flow rate verification/calibration of AirChek TOUCH and Leland Legacy sample pumps		375-200
Pulsation Dampeners , required for use with the following (also available in kits; see above) <ul style="list-style-type: none">chek-mate Flowmeter Cat. Nos. 375-0550N, 375-0550, and 375-0550S for CalChek full calibration of AirChek TOUCH pumpchek-mate Flowmeter Cat. Nos. 375-50300N, 375-50300, and 375-50300S for flow rate verification of high flow pumps and CalChek flow rate verification/calibration of the Leland Legacy pump		375-100
		375-150