

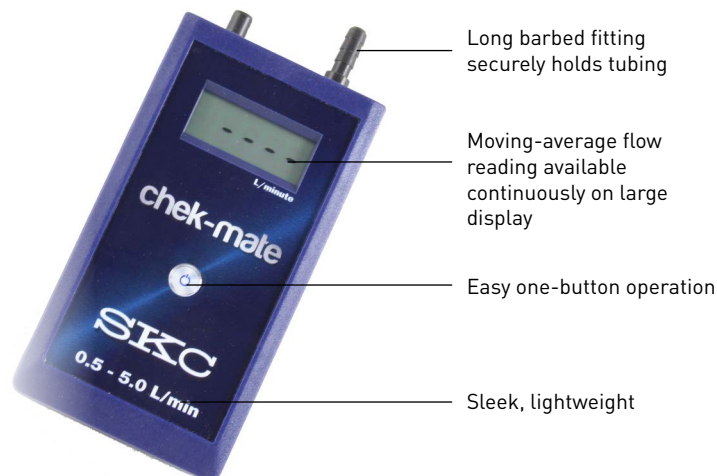
# chek-mate FLOWMETER

- ▶ **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*

To learn more, visit [www.skcinc.com](http://www.skcinc.com)



## 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)

## 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.

## Ordering Information

Description	Flow Range	Cat. No.
<b>High Flow chek-mate Flowmeter with CalChek Feature</b> includes a 9-volt alkaline battery, (CalChek Cable sold separately; see below. Flowmeter hosetail is a larger diameter for higher flow pumps.) with UK standard traceable calibration certificate with NIST standard traceable calibration certificate with ISO standard traceable calibration certificate	<b>5 to 30 L/min</b>	<b>375-50300</b> <b>375-50300N</b> <b>375-50300S</b>
<b>Kit with NIST standard traceable calibration certificate and pulsation dampener</b> Cat. No. 375-150		<b>375-50300-KN</b>
<b>Kit with ISO standard traceable calibration certificate and pulsation dampener</b> Cat. No. 375-150		<b>375-50300-KNS</b>
<b>Medium Flow chek-mate Flowmeter with CalChek</b> includes a 9-volt alkaline battery with UK standard traceable calibration certificate with NIST standard traceable calibration certificate with ISO standard traceable calibration certificate	<b>0.50 to 5 L/min</b>	<b>375-0550</b> <b>375-0550N</b> <b>375-0550S</b>
<b>Kit with NIST standard traceable calibration certificate and pulsation dampener</b> Cat. No. 375-100		<b>375-0550-KN</b>
<b>Kit with ISO standard traceable calibration certificate and pulsation dampener</b> Cat. No. 375-100		<b>375-0550-KNS</b>
<b>Low Flow chek-mate Flowmeter</b> includes a 9-volt alkaline battery with UK standard traceable calibration certificate with NIST standard traceable calibration certificate with ISO standard traceable calibration certificate	<b>20 to 500 ml/min</b>	<b>375-00205</b> <b>375-00205N</b> <b>375-00205S</b>
<b>Accessories</b>		
<b>CalChek Communication Cable</b> 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		<b>375-200</b>
<b>Pulsation Dampeners</b> , required for use with the following (also available in kits; see above) <b>chek-mate Flowmeter Cat. Nos. 375-0550N, 375-0550, and 375-0550S</b> for CalChek full calibration of AirChek TOUCH pump		<b>375-100</b>
<b>chek-mate Flowmeter Cat. Nos. 375-50300N, 375-50300, and 375-50300S</b> for flow rate verification of high flow pumps and CalChek flow rate verification/calibration of the Leland Legacy pump		<b>375-150</b>