

Liqui-Flow L30

Termisk massflödesmätare för gaser från Bronkhorst High-Tech

Mäter och reglerar från 40 g/h till 20 kg/h

Enkel

- Mäter alltid rätt flöde oavsett tryck och temperatur
- Snabb respons, inreglering på 4-10 s
- Okänslig för vibrationer
- Klarar temperaturer från 5 till +70 °C
- Analogt bör- och ärvärde samt RS232-kommunikation
- Kapslingsklass IP65



Ekonomisk

- Enkelt montage med Swagelok-kopplingar, därmed låg installationskostnad
- Medieberörda delar i 316L
- Klarar tryck upp till 100 bar
- Kalibreringskurvor för upp till 8 olika vätskor kan lagras i instrumentet
- Profibus, DeviceNet, Modbus

Noggrann

- +/-1% av mätområdet

OmniProcess AB

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> Technical specifications

Measurement / control system

Accuracy, standard (based on actual calibration)	: ±1% FS
Turndown	: 2 ... 100%
Reproducibility	: ±0,2% FS typical H ₂ O
Settling time (controller)	: standard: 4...10 seconds on request: 1...2 seconds
Max. operating pressure	: 100 bar
Pressure drop	: 35 ... 350 mbar (based on 2 ... 20 kg/h H ₂ O)
Operating temperature	: 5...70°C
Temperature sensitivity	: ±0,2% FS/°C
Attitude sensitivity	: negligible
Warm-up time	: 30 min. for optimum accuracy; 3 min. for accuracy ±2% FS

Mechanical parts

Material (wetted parts)	: electropolished stainless steel 316L; other on request
Process connections	: ¼" or 6 mm OD compression type or ¼" face seal male, orbitally welded; other on request
Outer seals	: metallic
Valve seat (controllers)	: Kalrez-6375; other on request
Ingress protection (housing)	: IP65

Electrical properties

Power supply	: +15...24 Vdc
Power consumption	: meter: max. 18,5 Watt; controller: max. 22 Watt
Analog output/command	: 0...5 (10) Vdc or 0 (4)...20 mA (sourcing output)
Digital communication	: standard: RS232 options: Profibus-DP®, DeviceNet™, Modbus-RTU, FLOW-BUS
Electrical connection	
Analog/RS232/Power	: 8 DIN male
Profibus-DP®	: 5-pin M12 female
DeviceNet™	: 5-pin M12 male
Modbus-RTU/FLOW-BUS	: 5-pin M12 male

Calibration

References	: Verified by NKO, the Dutch calibration organisation, and traceable to Dutch and international standards
Liquids	: Standard calibration liquid: H ₂ O; for other liquids apply to factory
System	: Precision laboratory balances

Technical specifications and dimensions subject to change without notice.

> Models and flow ranges

Liquid Mass Flow Meters

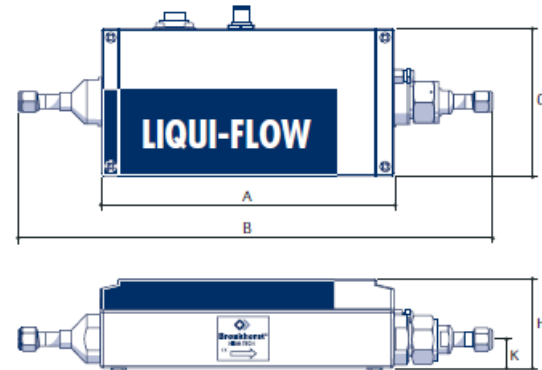
Model	min. flow	max. flow
L30	0,04...2 kg/h	0,4...20 kg/h

Liquid Mass Flow Controllers

Model	min. flow	max. flow
L30C2I (Kv-max: 2,37x10 ⁻⁷)	0,04...2 kg/h	0,4...20 kg/h
L30C5I (Kv-max: 6,93x10 ⁻⁷)	0,04...2 kg/h	0,4...20 kg/h

Indicated ranges are based on H₂O

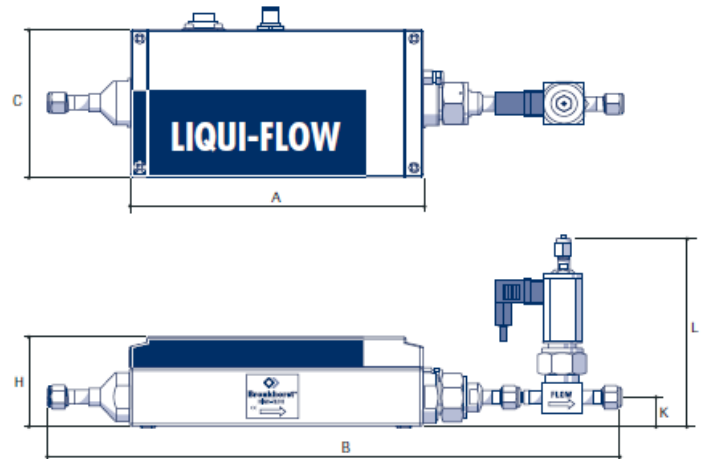
> Dimensions



Flow Meter

Model	A	B	C	H	K	Weight (kg)
L30 (¼")	200	324	100	61	20	0,5

Dimensions in mm.



Flow Controllers

Model	A	B	C	H	K	L	Weight (kg)
L30C2I (¼")	200	385	100	61	20	129	0,8
L30C5I (¼")	200	385	100	61	20	114	1,0

Dimensions in mm.