358 Series L liquid flow meters

Laminar liquid flow meters from 0.5 mL/min to 10 L/min full scale

The L meter measures liquid volumetric flow and shows flow, pressure and temperature together on its display. One laminar sensor design covers 0.5 mL/min to 10 L/min full scale, with a measuring range of 2–100 % of full scale. RS-232 and Modbus RTU are standard; analogue outputs and fieldbus interfaces are options. There is also a portable battery version.



10 L/min	±2 % FS	2–100 %	< 10 ms	6.9 bar g
Largest full scale; the smallest is 0.5 mL/min	Accuracy including repeatability and linearity	Measuring range of full scale	Typical indication response	Operating pressure (100 psig)

Performance

Accuracy [1]	±2 % of full scale
Repeatability (2σ) [1]	±0.2 % of full scale
Measuring range	2–100 % of full scale
Temperature sensitivity	Zero and span shift 0.02 % FS/°C from 25 °C
Totaliser	±0.1 % rd additional uncertainty
Sensor response	< 1 ms
Indication response	< 10 ms, flow rate dependent
Warm-up time	< 1 s
Pressure accuracy [1]	±0.5 % of full scale
Temperature accuracy	±0.75 °C

Operating conditions

Operating pressure	Up to 6.9 bar g (100 psig)
Damage limits	Common-mode line pressure: above 13.8 bar g (200 psig) Differential pressure: above 5.17 bar (75 psid)
Temperature	−10 to 60 °C

Mechanical

Wetted materials	L: 316L and 303 stainless steel; FKM seals, EPDM or FFKM optional LS: 316L and 303 stainless steel; FFKM seals, EPDM optional
Protection	IP40
Orientation sensitivity	None

Electrical and communication (L)

Analogue outputs	4–20 mA, 0–5 V DC, 1–5 V DC or 0–10 V DC; adds ±0.1 % FS uncertainty
Digital I/O	Standard: RS-232 and Modbus RTU Options: RS-485, Modbus TCP/IP, DeviceNet, EtherCAT, EtherNet/IP, PROFINET, PROFIBUS, IO-Link
Connector	6-pin locking, 8-pin mini-DIN, 8-pin M12, DB-9 or DB-15; custom pinouts: ask Analyt-MTC
Supply [2]	0–5 V DC output: 9–28 V DC, 40 mA 0–10 V DC output: 12–28 V DC, 40 mA 4–20 mA output: 12–28 V DC, 80 mA
Update rates [2]	Digital: 40 Hz at 19 200 baud Analogue: 1 kHz; display: 10 Hz
Display	Backlit display with keys; shows flow, temperature and pressure at once; optional colour TFT

Electrical and communication (LB)

Supply	5 V DC, 1 A recommended, from a USB outlet adapter
Battery life	Monochrome screen 18 h; colour TFT screen 8 h (user-configurable, contrast dependent)
Recharge	3.5 h with the supplied 2 A USB-A supply, device off; charging 0–45 °C
Communication	Serial over Micro-USB, power over Micro-USB type B Bluetooth Low Energy, with a mobile app on a compatible Android or iOS device (ask Analyt-MTC)

Full-scale ranges and pressure drop

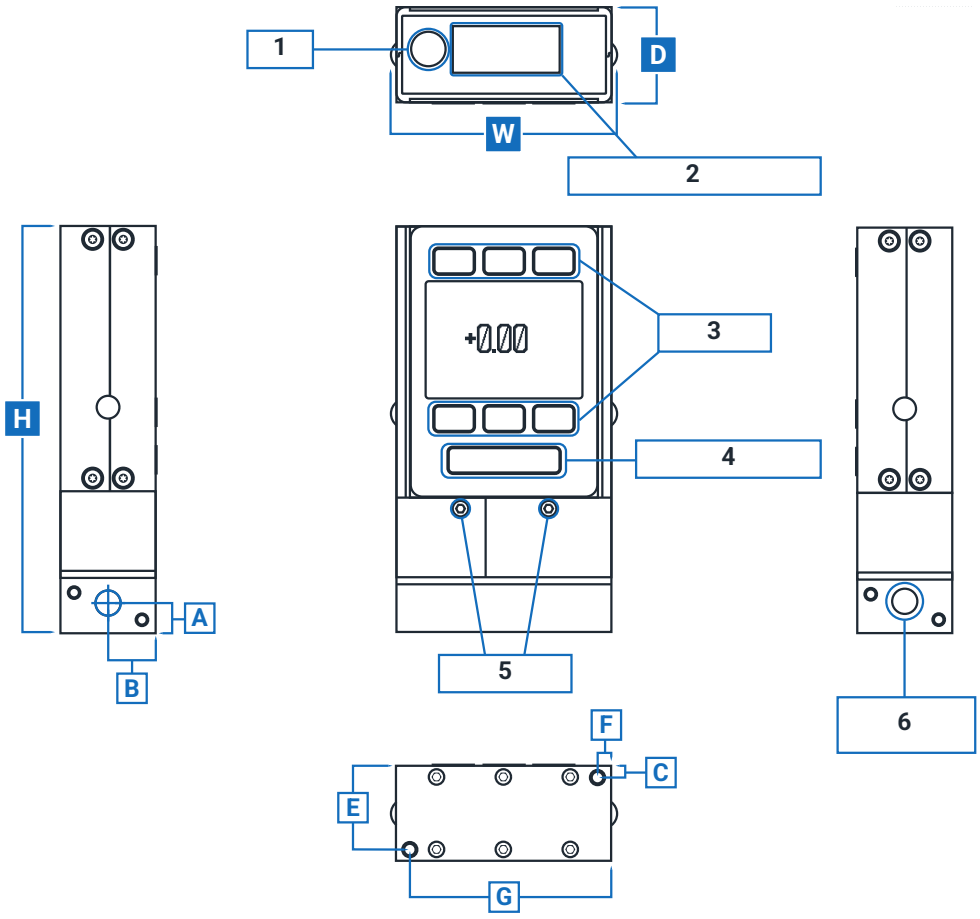
Full scale	Δp, mbar	psid
0.5–1 mL/min	138	2.0
2–500 mL/min	138	2.0
1 L/min	276	4.0
2 L/min	276	4.0
5 L/min	689	10.0
10 L/min	1379	20.0

Δp with water at full scale, venting to atmosphere.

Model data

Full scale	Process connection	Mounting taps, depth	Weight, kg
0.5–1 mL/min	M5 female	2× 8-32 UNC, 4.45 mm	≈ 0.4
2–500 mL/min	1/8" NPT female	2× 8-32 UNC, 8.23 mm	≈ 0.4
1 L/min	1/8" NPT female	2× 8-32 UNC, 8.89 mm	≈ 0.4
2 L/min	1/4" NPT female	2× 8-32 UNC, 8.89 mm	≈ 0.6
5 L/min	1/4" NPT female	4× 8-32 UNC, 9.53 mm	≈ 1.1
10 L/min	1/4" NPT female	4× 8-32 UNC, 9.53 mm	≈ 1.1

M5 ports: 10-32 compatible, shipped with Buna-N O-ring face-seal adapters to 1/8" female NPT. The portable version (LB) adds 90.72 g.



1 DC power input
2 Input and output ports
3 Controls
4 Backlight switch
5 Bleed ports
6 Process connections

Top, front, side and bottom views with dimension letters. The portable version (LB) adds 41.81 mm to the height H.

Dimensions in mm

Full scale	H	W	D	A	B	C	E	F	G
0.5–1 mL/min	114.00	60.33	26.67	8.53	13.34	3.18	23.50	3.81	56.52
2 mL/min–1 L/min	118.31	60.33	26.67	8.53	13.34	3.18	23.50	3.81	56.52
2 L/min	120.45	66.68	26.67	8.89	13.34	3.18	23.50	6.99	59.69
5–10 L/min	131.88	101.60	40.64	12.70	20.32	4.45	36.20	19.05	82.55

Standard versions, water

Full scale	L, order code	LS, order code	LB, order code
0.5 mL/min	35860	35860S	35860B
1 mL/min	35861	35861S	35861B
2 mL/min	35862	35862S	35862B
5 mL/min	35863	35863S	35863B
10 mL/min	35864	35864S	35864B
20 mL/min	35865	35865S	35865B
50 mL/min	35866	35866S	35866B
100 mL/min	35867	35867S	35867B
200 mL/min	35868	35868S	35868B
500 mL/min	35869	35869S	35869B
1 L/min	35870	35870S	35870B
2 L/min	35871	35871S	35871B
5 L/min	35872	35872S	35872B
10 L/min	35873	35873S	35873B

Order from Analyt-MTC with the order codes. Calibrated for water. LS: FFKM seals; LB: portable battery version. For any other version, contact Analyt-MTC.

Options and accessories

Colour TFT display	
Portable battery version (LB)	
EPDM or FFKM seals	
Weatherproofing options	
Compression, face-seal, push-to-connect, BSPP, SAE or Swagelok®-compatible connections (tube, VCO®, VCR®)	
Universal benchtop baseplate	35780
RS-232 cable, 8-pin mini-DIN to DB-9, 1.8 m	35754
USB to RS-232 adapter	35782
Rugged transport case	1200-000-110E

Notes

1. rd = of reading, FS = of full scale. Accuracy holds after tare at equilibrium and includes repeatability and linearity.
2. Fieldbus versions differ in supply and data rates; ask Analyt-MTC for their documentation.

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