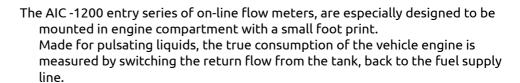


Fuel Flow Meter AIC - 1200 series



- Diesel or gasoline consumption flow meter for engines up to Q max 52.8 gph _200 l/h
- Compact flow meter for a small foot print application





- Small and medium cars and vans
- Construction, demolition machines
- Agriculture machines
- Stationary motors
- Motor boats

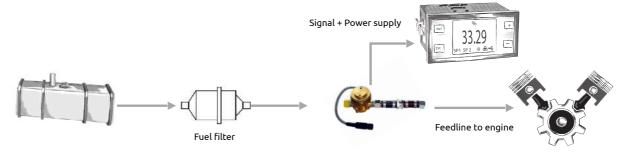
Media that can be measured:

- Diesel
- Gasoline / petrol
- Bio-fuel
- Liquid gas

Features and benefits:

- Up to 15 % of fuel economy, through a constant control of the driver
- Reliable instantaneous consumption display and flow totalisation
- Average fuel consumption visualisation with 3 digits after coma
- Mechanical meter of proven technology since more than 30 years
- No interferences with vehicle existing on-board electronic (CAN-Bus)
- AIC flow meters work on all fuel injection types including engines with fuel injection of latest generations

System Setup

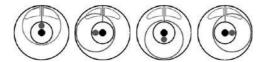




Technology

Rotary piston technology

After decades of experience, AIC SYSTEMS Ltd. has opted for the reliable volumetric flow meter technology. The rotary piston technology fits the fuel consumption measuring principle ideally. A single moving piston oscillates softly in a measuring chamber protected by a thin layer of fuel maintaining the piston self floating. This allows the meter to have the less possible mechanical friction, thus reduced wear. Under normal working conditions the line pressure loss ahead of the measuring cell is of max. 100 mbar.



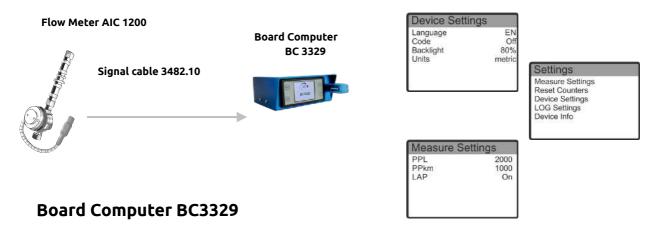
Direct measuring principle

With the Direct Measurement principle, the installation of only one AIC Fuel Flowmeter is required. The fresh and cool fuel consumed is aspirated from the tank and its volume measured by the AIC fuel Flowmeter.

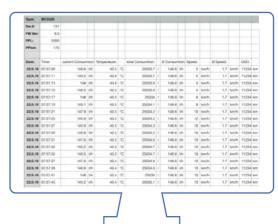
With this solution no fuel is returning back to the tank and the fuel passing through the AIC Volumetric measuring chamber represents precisely the real engine consumption.

The great benefit is that an AIC fuel consumption measuring system is ready to use right after installation.

Typical AIC 1200 Installation



The Board Computer BC3329 Display has input for Flow and Speed sensors. All measured values can be easily seen and written off the large display.



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Technical data

AIC 1200 series

General Data

Manufacturer	AIC SYSTEMS AG
Product designation	AIC 1204
	AIC 1208

Mechanical Data

Dimensions (L x l x p)	AIC 1204 HR : appr. 200 x 60 x 100 mm / 7.8 x 2.4 x 3.9" (without accessories)
	AIC 1208 HR : appr. 200 x 80 x 100 mm / 7.8 x 3.1 x 3.9"(without accessories)
Weights	AIC 1204 : ca 0.8kg / 1.7 lbs (sensor only)
	AIC 1208 : ca 1.2 kg / 2.6 lbs (sensor only)

Materials

Flow meter - sensor	Brass, aluminium
O - rings	Viton™
Connectors	Steel anodized, stainless steel, brass

Flowmeter

Measurement principle	Volumetric, oscillating piston, with microprocessor controlled pulse emitter
Measuring range	AIC 1204: 1 to 80 l/h AIC 1208: 4 to 200 l/h
Approx. starting flow rate	AIC 1204: 0.4 l/h AIC 1208: 1.6 l/h
Max. permissible error of actual value	AIC 1204: <±1% 1- 2 l/h ± 2.5 % AIC 1208: <±1% 4-5 l/h ± 2 %
Repeatability	Better than 0.2 % of reading
Admissible pressure	-1 to 6 bar
Mounting position	Indifferent
Operating temperature	-2080 C°
Ingress protection	Sensor and electronic, IP 64

Electrical connection

Power supply	8 - 28 VDC
Pulse signal	NPN open -collector; square 0.7 ms pulse width
Pulse rate	AIC 1204: 200 ppl
	AIC 1208: 80 ppl
Resolution	Lower than model e.g. AIC 900

The Board Computer BC3329 LOG has in addition the manual input for a lap routine. With the LOG version all values are logged on the USB stick in CSV format for a better evaluation and further processing.

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Ordering structure

Model Type Designation

Flow Meter

AIC 1204 200 ppl and for engines with Q max 21.1 gph _ 80 l/h

AIC 1208 80 ppl and for engines with Q max 52.8 gph _200 l/h

Accessories

Connector kits Connector kit

Transport case Transport box 400 x 300 x 90 mm, with carrying handle

Signal cables Signal cable 10m (from AIC 1200, 800, 900, 4000 to BC 3329)

Signal cable 10m 1 end free

BC 3329

BC 3329 LOG Bord Computer BC 3329 LOG for 20-28V DC No USB stick incl

Bord Computer BC 3329 LOG for 09-12V DC No USB stick incl

BC 3329 Display Bord Computer BC 3329 **Display** for 20-28V DC

Bord Computer BC 3329 Display for 09-12V DC

All informations are subject to change.

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