

Fuel Flow Meter AIC 1200



- Diesel and 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

The AIC 1200 entry series of on-line flow meters, are especially designed to be mounted in engine compartment with a small foot print. Made for pulsating liquids, the true consumption of the vehicle engine is measured by switching the return flow from the tank, back to the fuel supply line.

Applications:

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

Media that can be measured:

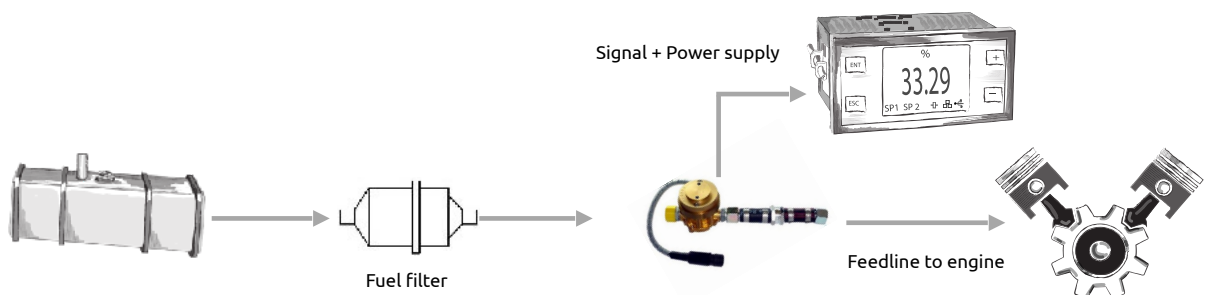
- Suitable for gasoline, diesel, HVO, Biodiesel B100, B30, fuel light, medium, heavy, fuel blends, Naphtha, AdBlue, hydraulic oils, Lubricating oils. For any fluids according to ISO 8217-2012 standard.

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



Sensor process connection: M16x 1.5

Technical data

AIC 1200 series

General Data

Manufacturer	AIC SYSTEMS Inc
Product designation	AIC 1204
	AIC 1208

Mechanical Data

Dimensions (L x l x p)	AIC 1204 : appr. 200 x 60 x 100 mm / 7.8 x 2.4 x 3.9" (without accessories)
	AIC 1208 : 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: $\pm 1\%$ 1- 2 l/h $\pm 2.5\%$ AIC 1208: $\pm 1\%$ 4-5 l/h $\pm 2\%$
Repeatability	Better than 0.2 % of reading
Admissible pressure	-1 to 6 bar
Mounting position	Indifferent
Operating temperature	-20.....80 C°
Ingress protection	Sensor and electronic, IP 64

Electrical connection

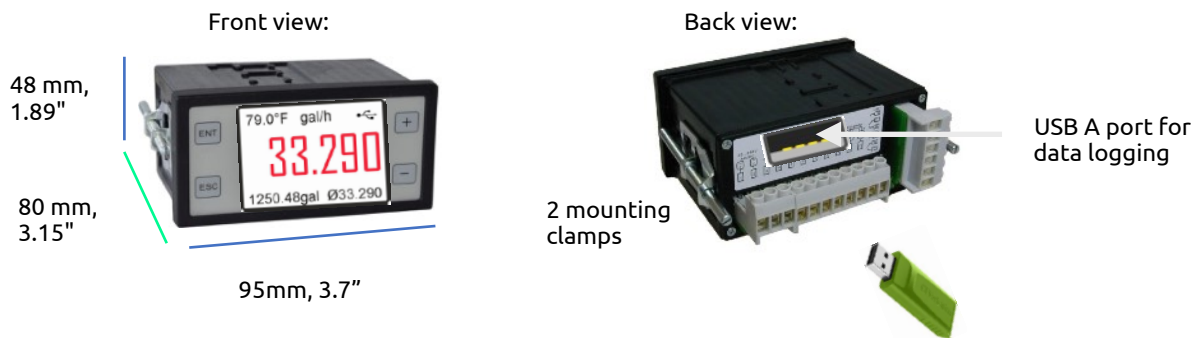
Power supply	8 - 28 VDC
Pulse signal	NPN open -collector; square 0.7 ms pulse width
Pulse rate	AIC 1204: 200 ppl
	AIC 1208 : 80 ppl
Resolution	Lower than model e.g. AIC 900

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
RD100	Remote Display RD 100 for 20-28V DC No USB stick incl
As alternative:	
BC 3329 LOG	Bord Computer BC 3329 LOG for 20-28V DC No USB stick incl



RD 100



Optional:
Rugged aluminum housing with external USB A port



All informations are subject to change.



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