UK Flowtechnik

Specialists in flow metering, pumps, couplings and process measurement equipment

PRODUCT DATASHEET

UK Flowtechnik Ltd
1 Central Park
Lenton Lane
Nottingham
NG7 2NR
United Kingdom

Phone +44 (0) 11 59 01 71 11
UK Free Phone 0800 4334 770
Fax +44 (0) 11 59 86 88 75

sales@ukflowtechnik.com
www.ukflowtechnik.com

EGM OEM Oval Gear Flowmeter

All EGM-Series pulse meters are designed for volumetric flow measurement of clean liquids across a broad range of applications in the automotive, aviation, mining, power, chemical, pharmaceutical, and petroleum industries. The EGM-Series will produce accurate and reliable measurements of almost all clean liquids, including but not limited to; alcohols, fuels and oils, water based salts and solutions, corrosion inhibitors, brake and transmission fluids, greases, emulsifiers, adhesives, insecticides, and some aggressive chemicals.

Features & Benefits

- Oval Gear technology for high accuracy and repeatability
- Direct volumetric measurement of flow
- Accuracy of reading is not affected by temperature and viscosity changes
- Measures high and low viscosity liquids
- Only two moving parts
- "Fuel Consumption" option can tolerate flow pulsations and has a built-in temperature sensor to correct for the fuel density changes

Calibration

EGM-Series flowmeters are available with factory calibrations or can be calibrated in the field as an economical option.

Fuel consumption

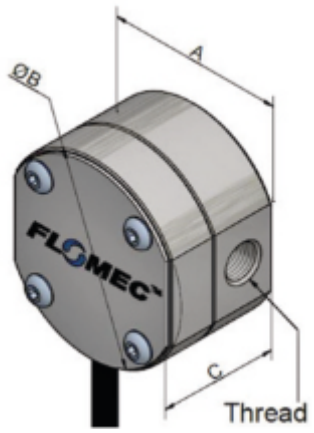
EGM-Series flowmeters with the Fuel Consumption option (Integral Option 2) are equipped with an integral PT100 temperature sensor which allows for accurate measurement of fuel consumption on combustion engines by correcting for temperature differences from the inlet to outlet of the engine. It also includes the Pulsating Flow electronics that eliminate the effect of pulsations in the flow.

Aluminium meters with PPS rotors are suitable for petroleum products including: oils, greases, fuels and fuel oils. Stainless steel meters are suitable for Alcohols, water based liquids, some aggressive liquids, AdBlue (DEF, Urea) as well as fuel and oil applications in saline marine environments

Technical Data

	EGM004	EGM006	EGM008	EGM015	EGM020
Flow Range L/Hr (3cPs)	0.5-36	1-100	15-550	1-4"	3-80"
Flow Range L/Hr (1cPs)	2-24	5-80	18-440	1.5-32"	5-64"
Flow Range L/Hr (7cPs)	0.5-36	1-100	15-550	0.5-40"	2-80"
Flow Range L/Hr (200cPs)	0.4-36	0.7-100	6-550	0.4-40"	1.8-80"
Flow Range L/Hr (500cPs)	0.25-27	0.5-75	2-550	0.3-40"	1.5-80"
Flow Range L/Hr (1,000cPs)	0.12-16	0.3-45	1.5-360	0.2-25"	1-50"
Connection Size	1/8"	¼"	3/8"	½"	¾"
Meter Factor Standard (Pulses per litre)	2,800	1,060	720	170	105
Meter Factor Fuel Consumption (Pulses per litre)	2,800	1,060	180	42.5	26.3
Body Material	Aluminium or 316 Stainless Steel				
Gear Material	Carbon filled PPS or Stainless Steel with Carbon/Ceramic bearings				Carbon filled PPS
Seals	Viton or PTFE encapsulated Viton				
Linearity	+/- 1% of reading			+/- 0.5% of reading	
Aluminium Max Pressure (Bar)	34			20	
Stainless Steel Max Pressure (Bar)	55			20	
Max Temperature (°C)	82°C				
Output	Hall effect NPN pulsed output (5-24 Vdc, 20 mA max) plus Pt100 output of fuel consumption models				

Dimensional Data



	A	B	C
EGM004 (mm)	46	49.5	35
EGM006 (mm)	58	64.5	39
EGM008 (mm)	58	64.5	49
EGM015 (mm)	72	82	66
EGM020 (mm)	72	82	77

Ordering Information

EGM008	A00	I	-	8	I	I

Meter Size

0.5-36 L/Hr (1/8")	EGM004
2-100 L/Hr (1/4")	EGM006
15-550 L/Hr (3/8")	EGM008
1-40 l/min (1/2")	EGM015
3-80 l/min (3/4")	EGM020

Cable Entries

Hall effect output with one point calibration and K-Factor (2 m cable)^*	1
Fuel consumption: Pulsating flow, PT100 temp. sensor, one pt Cal & K-factor) (2 m cable)^*	2

Connections

BSPP female	1
NPT female	2

Materials

Aluminium body, PPS gears (EGM008 to EGM020 only)	A00
Aluminium body, Stainless Steel gears (EGM004 to EGM015 only)	A51
316 Stainless Steel body, PPS gears (EGM008 to EGM020 only)	S00
316 Stainless Steel body and gears (EGM004 to EGM015 only)	S51

Temperature Limits

80°C	8

Seal Material

Viton (standard) -15 to +82°C	1
PTFE encapsulated Viton	3