



OVAL GEAR FLOW METER SERIES

OFM01

**Futuristic
Technologies**



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Futuristic oval gear flow meters are a direct volume positive displacement (PD) meter known for accuracy and longevity in the field. This simple, robust design means the oval gear meter is stable in harsh environments and maintains accuracy regardless of the liquid temperature, changes in viscosity, or pulsating flow.

Oval Gear Flow Meters – Operating Principle :

The measuring element of an oval gear meter consists of two toothed precision oval wheels which are driven by the fluid passing through the unit. The number of revolutions is an exact measure of the volume.

Maintenance and recalibration requirements are minimal because of the lack of moving parts. Often, the gear meter is selected over the Coriolis because of its accuracy and longevity in harsh environments where the Coriolis is susceptible to interference from pressure or temperature changes and general wear.



Oval Gear Flow Meters Applications :

Kerosene, Diesel, Light Oil, Heavy oil, Gasoline.



Specifications

Parameter

Enclosure/ Rotor gear	Aluminum anodize
O-ring	NBR
Shaft	Stainless Steel
Accuracy (standard installation position)	± 1 % FSD
Maximum working pressure	5 MPA (35~85%RH)
Fluid & Ambient temperature	-40 to 80°C (Optional 120 °C Code-HT)
Power Supply	5 - 24V DC



ORDERING CODE

Series	Code	MOC	Code	Connection	Flow Rate	Code	Display / Output
OFM01-	A	Aluminum	T04	1/4" BSP (F)	0.7 To 60 L/H	NN	None/ NPN
	S	SS316	T06	1/4" BSP (F)	5 To 150 L/H	NP	None/ PNP
			T08	3/8" BSP (F)	20 To 300 L/H	DN	Display(Battery operated) / None
			T12	1/2" BSP (F)	50 To 1200 L/H	DA	Display / 4-20mA
			T15	1/2" BSP (F)	50 To 1800 L/H	DX	Display / 4-20mA + RS485
			T20	3/4" BSP (F)	150 To 2000 L/H		
			T25	1" BSP (F)	200 To 4000 L/H		
			T40	1 1/2" BSP (F)	400 To 10000 L/H		
			T50	2" BSP (F)	600 To 20000 L/H		
			T80	3" BSP (F)	1000 To 50000 L/H		
			F12	1/2" #150	50 To 1200 L/H		
			F15	1/2" #150	50 To 1800 L/H		
			F20	3/4" #150	150 To 2000 L/H		
			F25	1" #150	200 To 4000 L/H		
			F25A	1" #150	200 To 6000 L/H		
			F40	1 1/2" #150	400 To 10000 L/H		
			F50	2" #150	600 To 20000 L/H		
			F80	3" #150	1000 To 50000 L/H		

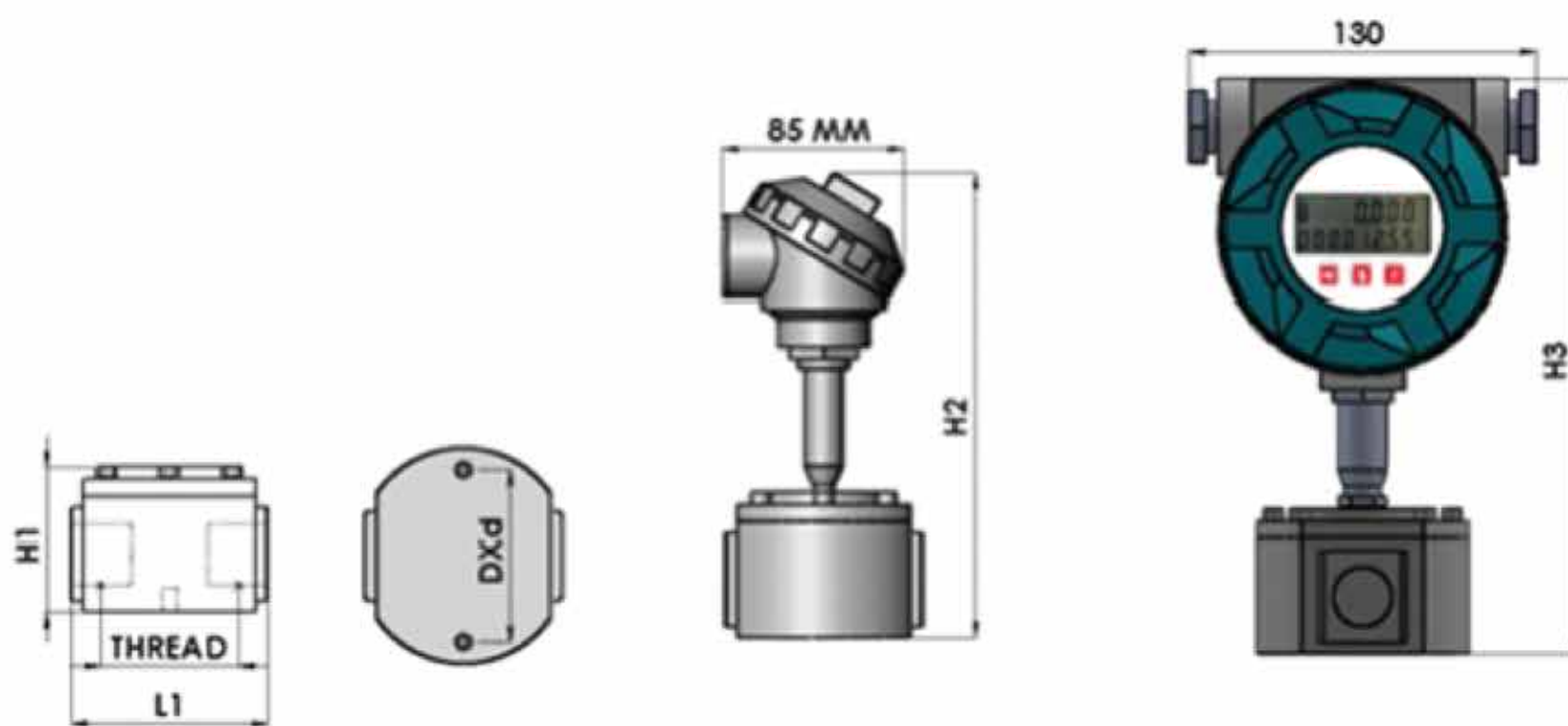
Sample Code : OFM01-A-T25-NN

NOTE : -DN/DA/DX option not available for size 1/4" & 3/8"
 - Add -HT for fluid Temp. upto 120°C

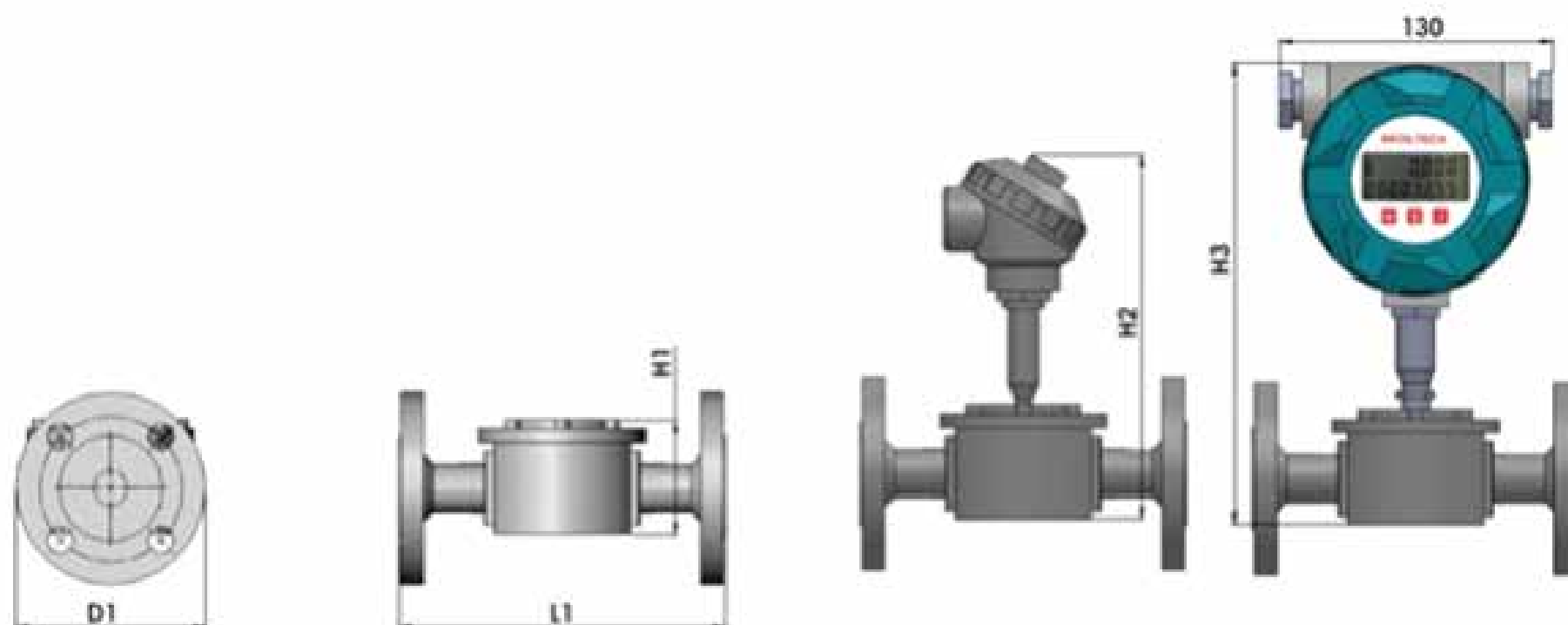


DIMENSION DRAWING

(All dimension in mm)



CONNECTION	L1	H 1	D X d	THREAD	H 2	H 3
T04	60	45	50 x M 5	1/4" - B S P F	210	235
T06	60	45	50 x M 5	1/4" - B S P F	210	235
T08	68	50	60 x M 5	3/8" - B S P F	215	240
T12	78	50	60 x M 5	1/2" - B S P F	215	240
T20	82	59	75 x M 5	3/4" - B S P F	224	249
T25	94	68	90 x M 5	1" B S P F	233	258
T40	198	98	180 x M 8	1.5" - B S P F	263	288
T50	198	130	180 x M 8	2" - B S P F	295	330
T80	210	140	200 x M 8	3" - B S P F	305	330



CONNECTION	L1	H 1	D1	H2	H: 3
F12/15	175	50	1/2" 150CLASS	215	240
F20	180	59	3/4" 150CLASS	224	249
F25/25A	200	68	1" 150CLASS	233	258
F40	291	98	1 1/2" 150CLASS	263	288
F50	420	130	2" 150CLASS	295	320
F80	425	140	3" 150CLASS	305	330