

# HELIFLU™ TLM

*The Compact Helical Turbine Flow Meter for Liquid Hydrocarbon Measurement*



## Product applications

Storage  
Airport refuelers  
Wagon & road tankers  
Loading racks  
Light products transfer  
Master metering



## A COMPACT METERING SOLUTION

The **Heliflu™ TLM** flowmeter is designed for high accuracy measurement of **low to medium viscosity liquids and refined products**.

Meter installations and custody transfer operations are improved by the unique **weight and space saving** design which includes integrated flow conditioning.

The **Heliflu™ TLM** is fitted with a removable measuring cartridge and includes an integrated flow conditioner that allows installation without any upstream and downstream pipe runs.

### Key Benefits

Proven robust technology
Superior linearity and repeatability on multiple products with a single K-factor
Integrated flow conditioning : no straight length required
Easy to install
Horizontal or vertical installation
Long term stability and reliability
Low cost of ownership
Low downtime
Low pressure drop and energy consumption
Removable cartridge for easy maintenance
Complies with global certifications and standards
Calibrated on customer specified viscosities
Manufactured by a company with 90+ years of metering experience

# MATERIAL SPECIFICATION

Size		Model	Nominal Flow range Min / Max						Typical K factor			Meter length		Approx. meter weight	
inch	mm		m <sup>3</sup> /h		l/min		GPM		pulse/m <sup>3</sup>	pulse/l	pulse/gallon	inch	mm	kg	lbs
3	80	TLM 3-30	3	30	50	500	13	132	44,500	44.5	168.4	18.5	470	25	55
3	80	TLM 3-50	5	50	83	833	22	220	27,000	27	102.2	18.5	470	25	55
3	80	TLM 3-70	7	70	116	1,166	30	308	10,500	10.5	39.7	18.5	470	27	60
3	80	TLM 3-110	11	110	183	1,833	48	484	10,500	10.5	39.7	18.5	470	27	60
3	80	TLM 3-150	15	150	250	2,500	66	660	10,500	10.5	39.7	18.5	470	27	60
4	100	TLM 4-70	7	70	116	1,166	30	308	10,500	10.5	39.7	20	508	38	83
4	100	TLM 4-110	11	110	183	1,833	48	484	10,500	10.5	39.7	20	508	38	83
4	100	TLM 4-150	15	150	250	2,500	66	660	10,500	10.5	39.7	20	508	38	83
4	100	TLM 4-200	20	200	333	3,333	88	880	3,100	3.1	11.7	20	508	32	70
4	100	TLM 4-300	30	300	500	5,000	132	1,321	3,100	3.1	11.7	20	508	32	70

## Performances

Linearity	±0.15% on 1 product ±0.3% on 2 & 3 products (±0.2% on premium)
Repeatability	<0.04%
Max. Flow rate	30 to 300 m <sup>3</sup> /h
Viscosity	≤15 cSt

## Meter Specification

Meter size	3" to 4"
Flange rating	ANSI 150/300 (ASME B16.5)
Pick up coil	2
Sensor type	Inductive coil
Preamplifier	2 wires, 2 wires NAMUR, 3 wires Open Collector

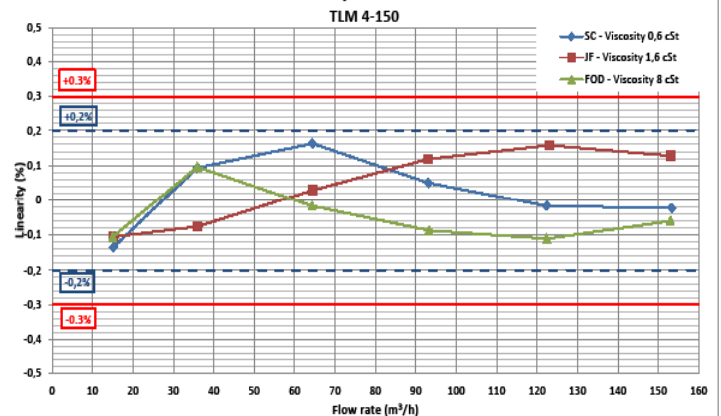
## Material of Construction

Body and flanges	Stainless Steel
Internals	
Cartridge	316L Stainless Steel
Rotor	Aluminium
Bearings	Tungsten Carbide or Graphite
Electrical enclosure	316 Stainless Steel or Aluminium

## Meter Approvals

Electrical	ATEX and IECEx (II2G – IIC T6) UL/cUL (Class 1 Div 1, Group C,D)
Pressure	PED directive compliant
Environment	EMC directive compliant
Metrology	OIML R117-1 MID (Class 0.5) ONML and other national approvals (upon request)

## Linearity vs Flowrate



## Meter Temperature Range

	ATEX/IECEX	UL/cUL
Ambient Temperature	-50°C to +80°C (-58°F to +176°F)	-50°C to +80°C (-58°F to +176°F)
Process Temperature	-50°C to +180°C (-58°F to +356°F)	-50°C to +150°C (-58°F to +302°F)
Ingress Protection	IP66	NEMA 4X
Storage Temperature	-50°C to +60°C (-58°F to +140°F)	

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