

# ■ ■ ■ HELIFLU™ TLM-C

**Dedicated to On-truck High Accuracy  
Measurement of Low to Medium  
Viscosity Liquids**

*To Optimize your Liquid Hydrocarbons  
Transfer Operations*



## Main Applications

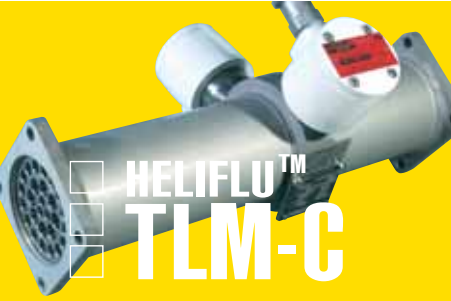
On-truck unloading  
Airport refuellers



FAURE HERMAN

*Mastering the Flow*

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# On-Truck Compact Metering Solution

## Measurement Principle

*TLM Turbine flowmeters are dedicated to accurate measurement of low to medium viscosity liquids for unloading activities. The simple concept combined with the weight and space savings, improves the installation and operations for the transfer of liquid hydrocarbons.*

*The operating principle for this flowmeter type rests on the rotational velocity of a helical bladed impeller, positioned at the middle point of the piping, by means of an assembly made of magnets (fitted in the blades) and coils (positioned in the flowmeter body).*

## Key Technological Features

- Robust and simple construction
- Weight & space savings
- No upstream & downstream straight length needed
- Supports reverse flow
- Single K-factor for 2 liquids
- Integrated flow conditioner
- Low pressure drop

## Key Customer Advantages

- Low cost of ownership
- Easy installation
- Long-term reliability and stability
- Accurate measurement
- Secures revenue collection
- Compatible with a wide range of electronics

## Specifications

Environment	
Process temperature range Climatic protection	- 40 to +180 °C (- 40 to + 292°F) IP 65
Safety	
EEx ia version (with coil &/or preamp) EEx d ia version (with coil &/or preamp)	Compatible with installation in Zones 1 & 2 Group II 1G Compatible with installation in Zones 1 & 2 Group II 2G
Mechanical	
Meter length Meter weight Meter body material Flanges Impeller Cartridge	508 mm (20") 13 kg (20 lbs) Cast aluminium Aluminium square flanges (131mm / 5.16") Plated aluminium 316 stainless steel
Performances	
Flowrates  Accuracy Minimum flowrate detection Repeatability Viscosity range	7-70 m³/h (unloading by gravity flow) 150 m³/h (loading under pressure) ± 0.25 % within 7-70 m³/h 1 m³/h Better than ± 0.02 % on all products (TLM) 1 K-factor for low viscosity products
Electrical options	
Pick-up-coil	2 with pre-amplifiers

## TLM-C Values vs. PD Meter

Lower	Pressure drop
Lower	Costs
Lower	Weight
Lower	Maintenance
Identical	Size
Same or better	Accuracy



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