Heliflu®-CTA

HELICAL TURBINE METERS

The Heliflu™ CTA is a new generation of compact autonomous bi-directional flow meter with integrated electronics. The advanced design and robust construction of the CTA enables it to be installed at the end of a flexible fuelling hose and straight upstream from a fueling nozzle. The Heliflu™ CTA precisely measures volumetric flowrates of liquid during fueling or re-fueling. The operating principle for this flow meter relies on the centrally located rotational velocity of a helical bladed impeller, embedded with magnets and a pick up coil (positioned in the flowmeter body). If you consider its performance, capabilities and **ALL** its features, the Heliflu™ CTA is the obvious choice.

LOWER TOTAL COST OF OWNERSHIP WITH HELICAL TURBINE TECHNOLOGY

APPLICATIONS

- **Trucks Loading / Unloading through Flexible Hoses**
- **Mobile Field Refueling System**
- **Military Operations**

KEY TECHNOLOGICAL FEATURES & BENEFITS

- Integrated electronics
- Bi-directional measurement
- Flow direction indication
- Integrated flow conditioner
- Low pressure drop
- Low power consumption
- Robust construction
- Light weight
- Designed for light products measurement
- Suitable for gasoline, kerosene and gas-oil
- Accurate measurement over 10:1 flowrate rangeability
- Calibrated on customer specified viscosities
- Saline environment-proof
- Long-term reliability
- Easy operation
- 90+ years of metering experience

The Compact Bi-directional Metering Solution for Light Liquid Products

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CTA Meter Sizes & Flow Ranges

Body Dimensions	Model	Flow Range (m^3/h)		Flow Range (GPM)	
		Qmin	Qmax	Qmin	Qmax
Length: 178 mm | 7.0 in Height: 94 mm | 3.7 in	CTA 20-6	0.6	6	2.6	26
	CTA 20-12	1.2	12	5.3	53
	CTA 20-20	2	20	8.8	88
	CTA 20-24	2.4	24	10.6	106
Length: 253.5 mm | 9.3 in Height: 137 mm | 5.4 in	CTA 100-30	3	30	13.2	132
	CTA 100-80	8	80	35.2	352
	CTA 100-100	10	100	44.0	440

ENVIRONMENT	
AMBIENT TEMPERATURE RANGE	- 40 to + 60 °C | - 40 to + 140 °F
CLIMATIC PROTECTION	IP66
SAFETY	
ATEX EEx ia IIB T4	Compatible with installation in Zones 1 & 2 Group IIA & IIB
MECHANICAL	
METER MASS	CTA 20: 1.6 kg | 3.53 lbs CTA 100: 2.5 kg | 11.46 lbs
PRESSURE	16 bar | 232 psi (maximum)
METER BODY MATERIAL	Aluminium
CONNECTIONS	CTA 20: Upstream 1¼" Female BSP | Downstream 1¼" Male BSP CTA 100: Upstream 2½" Female BSP or 2½" Female NPT Downstream 2½" Male BSP or 2½" Male NPT
IMPELLER MATERIAL	Aluminium
PERFORMANCE	
FLOW RATE RANGES	CTA 20: 6 to 24 m^3/h | 2.6 to 106 GPM CTA 100: 30 to 100 m^3/h | 13.2 to 440 GPM
ACCURACY (DIRECT/REVERSE)	CTA 20: ± 1 % to 10 cSt | ± 2 % to 25 cSt CTA 100: ± 0.5 % to 10 cSt | ± 1 % to 25 cSt
TURNDOWN RATIO	10:1
REPEATABILITY	± 0.02 %
VISCOSITY RANGE	1 to 25 cSt
ELECTRICAL	
POWER SUPPLY	Battery: Average life time > 5,000 h
LCD DISPLAY INFORMATION (BACK-LIT FROM 0°C/32°F)	Instantaneous flowrate (5 digits) Batch volume (7 digits) Total volume (7 digits) Flow direction
FUNCTIONALITIES	Curve compensation Unit Options (L | m^3 | US Gallon | Barrel | $feet^3$) per time @ factory setting Low battery detection

FAURE HERMAN Ultraflux Counting every Drop

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