



# Heliflu<sup>®</sup>-CTA

## HELICAL TURBINE METERS



The Heliflu<sup>™</sup> 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 fueling hose and straight upstream from a fueling nozzle. The Heliflu<sup>™</sup> CTA precisely measures volumetric flowrates of liquid during fueling or refueling. 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<sup>™</sup> CTA is the obvious choice.

### LOWER TOTAL COST OF OWNERSHIP WITH HELICAL TURBINE TECHNOLOGY

#### APPLICATIONS

- Tank Truck Loading & Unloading through flexible hoses
- Mobile Field Refueling System
- Military Operations

#### KEY TECHNOLOGIES & 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 <sup>3</sup> /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
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## 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 1 <sup>1</sup> / <sub>4</sub> " Female BSP   Downstream 1 <sup>1</sup> / <sub>4</sub> " Male BSP CTA 100: Upstream 2 <sup>1</sup> / <sub>2</sub> " Female BSP or 2 <sup>1</sup> / <sub>2</sub> " Female NPT Downstream 2 <sup>1</sup> / <sub>2</sub> " Male BSP or 2 <sup>1</sup> / <sub>2</sub> " Male NPT
IMPELLER MATERIAL	Aluminium

## PERFORMANCE

FLOW RATE RANGES	CTA 20: 6 to 24 m <sup>3</sup> /h   2.6 to 106 GPM CTA 100: 30 to 100 m <sup>3</sup> /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	<0.04%
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 <sup>3</sup>   US Gallon   Barrel   feet <sup>3</sup> ) per time @ factory setting Low battery detection