

■ ■ ■ HELIFLU™ CTA

**A New Generation of Autonomous
Meter with Integrated Electronics**

*The Bidirectional Metering Solution
for Light Liquid Products*



Main Applications

Trucks Loading / Unloading through Flexible Hoses
Mobile Field Refuelling System
Military Operations



FAURE HERMAN

Mastering the Flow

www.faureherman.nt-rt.ru



Measurement Principle

CTA turbine flowmeters are essentially designed to measure volumetric flowrates of liquids during fuelling or re-fuelling operations.

The CTA product line is designed to be installed at the end of a flexible fuelling hose and straight upstream from a fuelling gun.

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 a coil (positioned in the flowmeter body).



CTA Product Line

The CTA Product Line consists of two flowmeters covering a range of flowrates from 0.6 to 100 m³/h.

Key Technological Features

- Robust construction
- Light weight
- Designed for light products measurement
- Bi-directional measurement
- Low pressure drop
- Saline environment-proof
- Large number of operating functions
- Low power consumption
- Integrated flow conditioner

Key Customer Advantages

- Long-term reliability
- Versatility of use
- Suitable for gasoline, kerosene and gas-oil
- Accurate measurement over 10:1 flowrate rangeability
- Easy operation
- Optional advanced functions as:
 - * Flow direction sensing
 - * Liquid / gas detection
 - * Temperature compensation

Specifications

Environment	
Ambient temperature range	- 40 + 60 °C (- 40 to + 140 °F)
Climatic protection	IP66
Safety	
	ATEX EEx ia IIB T4 Compatible with installation in Zones, 1 & 2 Group II 1G
Mechanical	
Meter weights	CTA 20 < 1.6 kg (3.53 lbs) CTA 100 < 5.2 kg (11.46 lbs)
Pressure range	Max. 16 bar
Meter body material	Aluminium
Fitting	CTA 20 1" ¹⁴ Female gas thread BSP in inlet / Male gas thread BSP in outlet CTA 100 2" ¹² Female gas thread BSP in inlet / Female gas thread BSP in outlet
Impeller material	Aluminium
Performances	
Max. flowrates	CTA 20: from 6 to 20 m ³ /h (36 - 120 Bbl/h) CTA 100: from 70 to 100 m ³ /h (420 - 600 Bbl/h)
Accuracy (direct/reverse)	CTA 20: ± 1 % up to 10 cSt & ± 2 % up to 25 cSt CTA 100: ± 0.5 % up to 10 cSt & ± 1 % up to 25 cSt
Turndown ratio	10:1
Repeatability	± 0.02 %
Viscosity range	From 1 to 23 cSt
Electrical options	
Power supply	Battery, average life time > 5,000 h
LCD Display (back-lighted from 0°C/32°F)	Instantaneous flowrate (5 digits) Batch volume (7 digits) Total volume (7 digits)
Functionalities	Flow detection Curve compensation Units selection Low battery detection



По вопросам продаж и поддержки обращайтесь:

Тел./факс: +7(843)206-01-48 (факс доб.0)

fhm@nt-rt.ru

www.faureherman.nt-rt.ru