

■ ■ ■ 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

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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 |



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