



Electronic measuring unit dedicated to the mass metering of LNG.



Application

Enables measured metrological distribution for tankers performing LNG deliveries.

- Transactional metering on delivery
- Controlling cooling before starting the process
- Control of the delivery process

CRYO-TRONIQUE LNG



Product Certification



Equipment complying with the Measuring Instruments Directive 2014/32/UE (MID)



ISO 9001



ATEX Zone 1, II 2 G compliant

Constitution

- MICROCOMPT + calculator
 - Enhanced ergonomics
 - Complete delivery process management
- Coriolis mass flow meter
- Printer kit

Advantages

- Cooling and pump integrity check (packing temperature, packing leakage, cavitation monitoring)
- Optional management of safety features around the delivery process (gas leak detection, dead man's function, control of left and/or right delivery valves)
- Quality control based on density
- Wireless connectivity
- Liquid nitrogen calibration possible (LN2)



CRYO-TRONIQUE LNG

Main features

The Cryo-Tronique LNG is a Coriolis (Emerson) flow meter measuring system dedicated to metered liquified natural gas.

As it complies with the Measuring Instruments Directive 2014/32/EU (MID), it enables transactional metering to be carried out.

This package enables automated delivery operations for a throughput of up to 54 t/h.

The system continuously performs and presents the density measurement for product quality control.

The Microcompt+ computer can be used to guide the various stages of the LNG tanker conditioning process:

- Cooling the pump
- Pressurizing the pipes,
- Pump control for delivery
- Centralized display of all data available during delivery (flow rate, liquid temperature, density, pump suction and discharge pressures as well as Delta P and temperatures around the pump)

The embedded connectivity channels (wired and wireless) allow interfacing with on-board IT and communication with remote maintenance and supervision systems.

CRYO-TRONIQUE LNG		Coriolis flowmeter		Options	
Measured liquid:	LNG	Body:	316L S/S	<ul style="list-style-type: none"> - Wi-Fi communication - On-board GSM & GPS communication - Custom delivery note printer 	
Mass flow rates:	2.7 to 27 t/h for 1" version 4.8 to 54 t/h for 2" version	Size:	1" or 2"		
Accuracy class:	1.5	MICROCOMPT + computer			
Repeatability:	0.02%	LCD display:	<ul style="list-style-type: none"> - Easy to read - Simplified navigation menu - Integrated alarm messages - Units: Kg, t/h, °C - Multilingual interface: English / French 		
Level / Grade:	1kg	Power supply:	24 VDC		
Minimum pressure:	1 bar	Memory:	3 years		
Maximum pressure:	100 bars	Atex:	⊕ II 2 (1) G Ex [ia Ga] IIB T4 Gb		
Liquid temperature:	-200°C to +50°C				
Temperature:	-20°C to +50°C				
Weight:	25kg (1"), 35kg (2")				
Temperature probe:	Temperature probe in Coriolis and PT100 from the pump				
Communication:	Serial Link, RFID, CAN, Bluetooth, Ethernet				
Certificate:	LNE-34322 (MID)				

CRYO-TRONIQUE LNG

- 1 Electronic control unit - ⊕ II 2 G Ex d IIB T6 Gb
- 2 Coriolis mass flow-meter - ⊕ BVS 03 ATEX E 176 X
- 3 Antenna box (GSM+GPS options)
- 4 Printer kit



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