

Flexim™ FLUXUS H736

High-precision 4-beam clamp-on measurement for liquid hydrocarbons



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The solution for non-intrusive mass flow rate and standard volumetric flow rate measurements

The prime clamp-on meter for liquid hydrocarbons

With its 4 beams Flexim FLUXUS H736 averages the result of up to 4 planes. This arrangement averages-out crossflow and achieves the optimum compensation for disturbed flow profiles with real time compensated channel averaging and fast signal frequency up to 1000 Hz.

- Correction of changes in quality and conditions for accurate standard volumetric flow rate and mass flow rate measurements
- Additional analytical functions to determine, e.g., API gravity, operational density, density at base conditions
- Database for light hydrocarbons (according to ISO91-2017 / TP25), crude oils / refined products (according to ISO91-2017 / ASTM1250 liquids) and heavy hydrocarbons (according to D4311)

- Check metering
- Leak detection
- Allocation measurement
- Mass flow and density measurement



Table of typical hydrocarbon products:

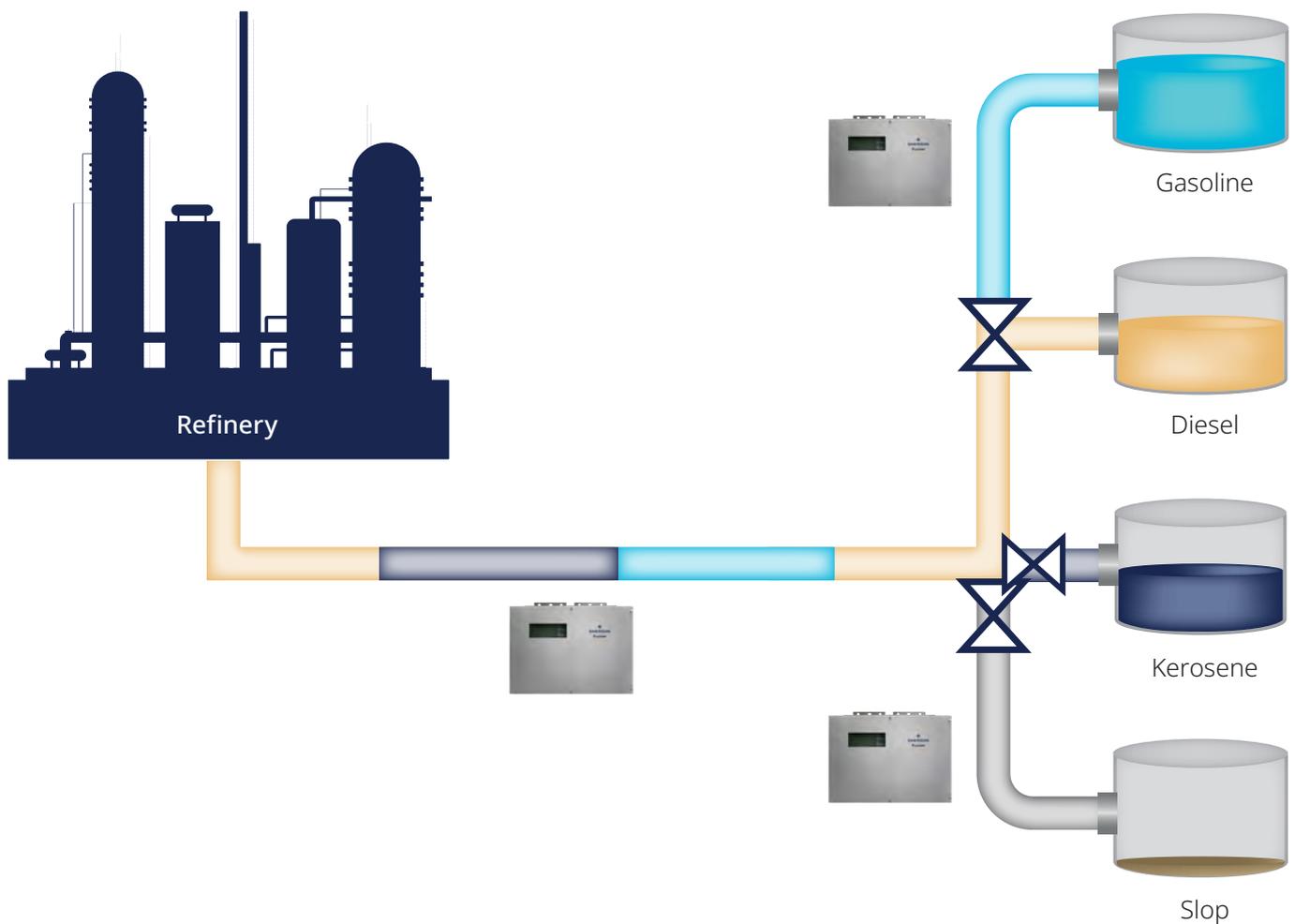
Name	API gravity	Density at 15 °C / 60 °F (kg/m ³)	Sound speed at 15 °C / 60 °F (m/s)
LPG	100 ... 150	502 ... 611	768 ... 998
Butane	111	581	951
Pentane	93	630	1051
Naphta	70 ... 85	653 ... 702	1152 ... 1213
Gasoline	47 ... 68	709 ... 792	1221 ... 1326
Kerosene	37 ... 50	779 ... 839	1309 ... 1385
Crude oil	29 ... 45	801 ... 881	1337 ... 1439
Heating oil	22 ... 37	839 ... 921	1385 ... 1491
Fuel oil	17 ... 22	921 ... 952	1491 ... 1532
Marine fuel	11 ... 17	952 ... 992	1532 ... 1607
Bitumen/ asphalts	5 ... 10	999 ... 1036	1617 ... 1666

Leak detection / allocation metering / check metering

- Low uncertainty and excellent repeatability, wide turndown down to 0.01 m/s (0.03 ft/s)
- Easy retrofit on existing pipelines
- Transducers can be installed buried or flooded
- Completely drift-free
- The meter can be fitted in any place even outside a metering station
- Downtime can be avoided when the custody transfer meter is temporarily taken out for recalibration



Flow and density measurement of multi- product pipelines to storage



TECHNICAL FACTS

High performance quad-beam flowmeter for standard volumetric flow rate, mass flow rate and API / density determination of hydrocarbons

Fluid	various hydrocarbons
Inner pipe diameter	6...6500 mm (0.24 ...255.9 inch)
Pipe surface temperature	-40...225 °C (-40...437 °F) Extended range: -200...+630 °C (-328...1166 °F)
Flow velocity	0.01...25 m/s (0.03...82 ft/s)
Measurement uncertainty	±1 % MV ±0.005 m/s (± 1% MV ± 0.02 ft/s)
Repeatability	0.15 % MV ±0.005 m/s (0.15% MV ± 0.02 ft/s)
Inputs	current, temperature
Outputs	current, binary, pulse, frequency, HART, M-Bus, BACnet MSTP/IP, Modbus RTU/TCP, Profibus PA, Foundation Fieldbus
Surface interfaces	USB, LAN
Explosion protection	<p>Transmitter ATEX Zone 2 IECEX Zone 2 (certification in progress) FM Class I Div. 2</p> <p>Available transducers ATEX/IECEX zone 1 + 2, FM Class I Div. 1 + 2</p>
Approvals	ATEX, IECEX, FM



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