Flow

compact solutions

Endress+Hauser

Compact solutions
for the food industry

Liquefied Gas

Diesel and HFO

Reception skids
Simply efficient

At Endress+Hauser we have developed complete solutions ranging from the design, construction, commissioning and on-site testing, complying with the particular needs of each client and following different industrial standards.

The automatic online measuring systems are without a doubt an essential part for optimizing the logging of primary media. These systems are known as reception skids, and these arithmetical units helps to quantify the waste from the media received.

Making use of the online flow measurement and our recorders, we guarantee the appropriate traceability of the media received, and that also, it is possible to complement the system with other important measurements such as analysis, pressure and temperature. Special calculations can be made depending on each need.

Further information »

Liquefied petroleum gas

Solutions adapted to the special conditions of the media

LPG reception skid

In-truck LPG dispatch

LPG reception system

Adapted to the particular features of the media

Liquefied petroleum gas (LPG) is used increasingly as an alternative hydrocarbon fuel due to its low carbon emissions, high transport flexibility and high calorific value.

When working with LPG, due to its gasification characteristics, when the system is below its steam pressure, a biphasic media is produced which affects the yield of the conventional measuring systems, and special adaptations are needed to hold the media in liquid phase.

At Endress+Hauser we know that LPG is sold by mass or volume, therefore the measuring systems based on Coriolis type flowmeters are the best option in any case. Also, Coriolis technology has shown its capacity to hold a constant yield and complying with international regulations and laws accepted worldwide for dynamic measurement. Discover our proposal.

Your benefits

- Low initial investment
- Quick return on investment
- Correct management of your payments
- Inventory optimization
- Eliminate losses from uncontrolled excess weight
- Accurate control at fuel entry
- Improving the reception process
- Easy operation and commissioning
- Minimum costs in calibration and maintenance

Added values

Heartbeat Technology

Operation concept (HMI)

Seamless system integration

Features

- Logging parameters and historical data
- Compact design, minimum intervention for installing
- Suitable for explosive areas
- Models available in 1" and 1½"
- Made of steel carbon
- Approximate dimensions [mm]:
  length 1246 x width 840 x height 2305
- Approximate weight [kg]: 450

Capacities

Flow rate range:	
▪ Skid with 1 inch connection:	50 - 100 GPM
▪ Skid with 1 ½ inch connection:	70 - 150 GPM
Accuracy in mass flow rate:	±0.15 %
Accuracy in volume flow rate:	±0.15 %
Density accuracy:	±0.0005 g/cm³

Reception of LPG »

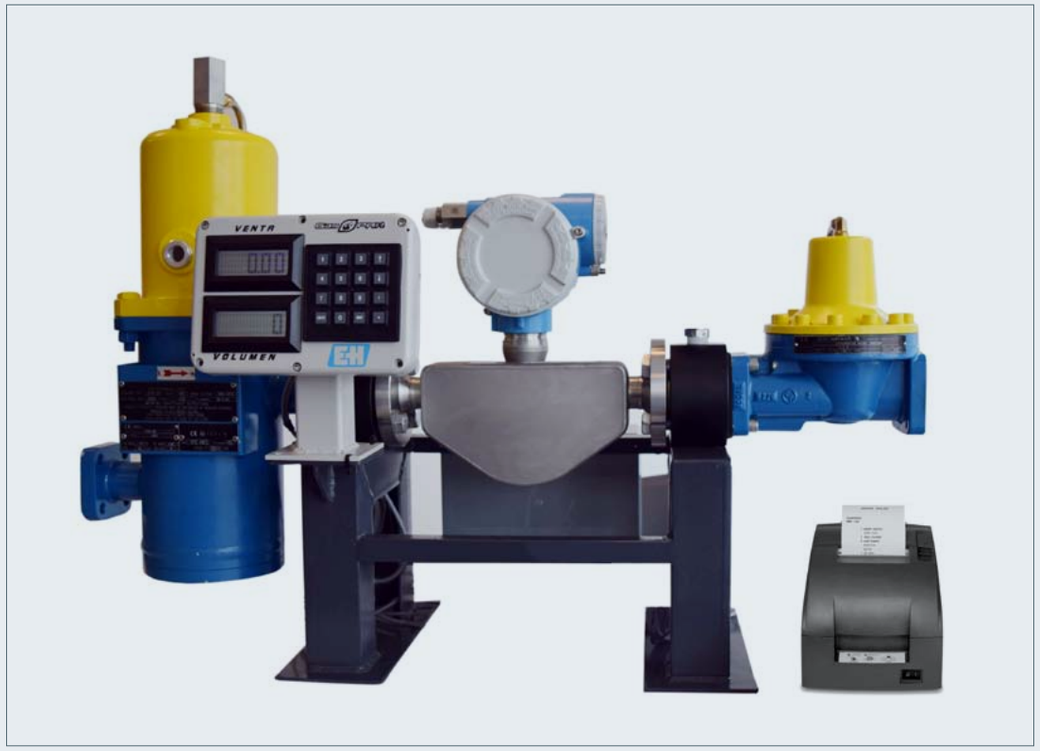
LPG dispatch

Designed for applications in trucks

Endress+Hauser offers the most complete flow measurement portfolio for LPG: from the reception of barges, of trucks, even the line of LPG dispensers arranged on trucks.

Frequently large amounts of LPG are transported between terminals and tanks using large trucks, however, there are bulk deliveries for end users (industrial and residential) which are carried out using small trucks.

Endress+Hauser has designed standardised LPG dispatch measurement platforms for truck applications, including Coriolis flow measurers and instruments, batch controllers and start up/ stop valves.
The dynamic control of the fluid pressure is included in the standard measurement solutions to avoid vaporisation. Discover the benefits of our solution.



Your benefits

- Low initial investment
- Quick return on investment.
- Detailed information of your inventory.
- Optimising your resources to reach more clients.
- Validating the delivery position with the tank-trailer position in real time.
- View of completed routes.
- Real time information of the distribution process.
- System adaptable to existing platforms.
- Minimum costs in calibration and maintenance.
- Easy operation and commissioning
- Coriolis LPGmass flowmeter designed especially for measuring the LPG flow rate in tank trucks
- Creation of virtual padlocks using GPS
- Geolocalisation
- Online follow-up

Added values

Heartbeat Technology

GPS

3G

Features

- Compact design, minimum intervention for installing
- Geographical location of tank-trailer
- Geographical location of clients
- Restriction of geographical service
- Logging the truck route points
- Suitable for explosive areas
- Made of steel carbon
- Approximate dimensions [mm]:
  length 980 x wide 370 x height 620
- Approximate weight [kg]: 175 kg

Capacities

Flow rate range:	
▪ Skid with 1″ connection:	30 – 80 GPM
▪ Skid with 1¹/₂″ connection:	50 – 100 GPM
Accuracy in mass flow rate:	±0.2 %
Accuracy in volume flow rate:	±0.3 %
Density accuracy:	±0.02 g/cm³

Diesel and Heavy Fuel Oil

Plan cost-savings throughout the process

Diesel and HFO reception skid »»

Diesel and HFO consumption skid »»

Reception of diesel and HFO

Increase efficiency and save money

The price of liquid fuels has been increasing, and so companies see the need to plan cost-savings in different parts of the process, so as to hold production costs as low as possible, particularly in auxiliary systems (generators, ovens, boilers, etc.) where consumption is high. In this respect, any improvement that increases the efficiency of said systems, becomes a cost-saver.

Endress+Hauser offers a complete and versatile solution that ensures that the amount of fuel requested for the plant operation is really being received and entered onto the books appropriately, using a flow measurement skid, which covers from small to large quantities with different media such as: Bunker and diesel.

Your benefits

- Low initial investment
- Quick return on investment
- Correct management of your payments
- Inventory optimization
- Accurate control at fuel entry.
- Improving the reception process
- Eliminate losses from uncontrolled excess weight
- Easy operation and commissioning
- Minimum costs in calibration and maintenance

Added values

Heartbeat Technology

Operation concept (HMI)

Seamless system integration

Features

- Logging parameters and historical data
- Compact design, minimum intervention for installing.
- Suitable for explosive areas.
- Models available: 1½", 2" and 3".
- Power supply unit: 110/230 VAC
- Communication protocol: Modbus RS485
- Outlets: one (01) relay outlet / HMI screen
- Made of steel carbon
- Approx. dimensions [mm]:
  length 1400 x width 870 x height 1600
- Approximate weight [kg]: 545

Capacities

Flow rate range:	
▪ Skid with 1½ inch connection:	30 – 70 GPM
▪ Skid with 2 inch connection:	50 – 150 GPM
▪ Skid with 3 inch connection:	120 – 400 GPM
Accuracy in mass flow rate:	±0.15 %
Accuracy in volume flow rate:	±0.15 %
Density accuracy:	±0.0005 g/cm³

360° Model - Reception of diesel and HFO

Endress+Hauser

Reception of diesel and HFO »

Consumption of diesel and HFO

Cost-savings in your auxiliary systems

The price of liquid fuels has been increasing, and so companies see the need to plan cost-savings in different parts of the process, so as to hold production costs as low as possible, particularly in auxiliary systems (generators, ovens, boilers, etc.) where consumption is high. In this respect, any improvement that increases the efficiency of said systems, becomes a cost-saver.

Endress+Hauser offers a complete and versatile solution that ensures that the amount of fuel requested for the plant operation is really being received and entered onto the books appropriately, using a flow measurement skid, which covers from small to large quantities with different media such as: Bunker and diesel.

Your benefits

- Low initial investment
- Quick return on investment
- Correct management of your payments
- Inventory optimization
- Accurate control at fuel entry.
- Improving the reception process
- Eliminate losses from uncontrolled excess weight
- Easy operation and commissioning
- Minimum costs in calibration and maintenance.

Added values

Heartbeat Technology

Operation concept (HMI)

Seamless system integration

Petroleum package

Features

- Logging parameters and historical data
- Compact design, minimum intervention for installing
- Suitable for explosive areas
- Models available: 1" and 1¹/₂"
- Power supply unit: 110/230 VAC
- Communication protocol: Modbus RS485
- Outlets: one (01) relay outlet / HMI screen
- Made of steel carbon
- Approx. dimensions [mm]:
  length 1750 x width 500 x height 600
- Approximate weight [kg]: 545

Capacities

Flow rate range:	
▪ Skid with 1 inch connection:	20 - 50 GPM
▪ Skid with 1¹/₂ inch connection:	30 - 70 GPM
Accuracy in mass flow rate:	±0.15 %
Accuracy in volume flow rate:	±0.15 %
Density accuracy:	±0.0005 g/cm³

360° Model - Consumption of diesel and HFO

Endress+Hauser

Consumption of diesel and HFO »

Contact us

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