

# SITRANS FUH1010 clamp-on ultrasonic meters for hydrocarbon interface detection

Siemens clamp-on ultrasonic interface detectors are ideal for hydrocarbon applications where precise detection of liquid interface is required.

Ultrasonic technology is used to determine the density of each liquid passing the externally mounted sensors while also providing the user with valuable data outputs such as density and API number.

Hydrocarbon operations require equipment you can rely on:

- FUH1010 minimizes maintenance since there are no moving parts to wear or foul
- There is no pressure drop
- Since the sensors mount on the outside of the pipe, there is no possibility of leakage
- Periodic cleaning is not required
- Easy installation can be made at any location, even with minimum available straight run
- There is no need to cut the pipe or stop the flow
- Single and dual channel / beam versions are available



# sitrans FUH1010

## SIEMENS

# SITRANS FUH1010 Interface Detector Clamp-on Solutions

The SITRANS® FUH1010 interface detector system is temperature and pressure compensated. It precisely detects crude oil and multi-product interfaces.

The system provides the user with exceptional repeatability over a wide range of products, independent of changes in temperature or pressure.

Data outputs include API number, density, and specific gravity at base temperature and pressure – and also at actual operating conditions. Clamp-on products are a direct replacement for intrusive densitometers.

One of the many features provided is a user settable relay to indicate a "Rate of Change" (ROC) alarm. This feature notifies the user or automated controller that an interface has occurred. The relay set point parameters are user programmable to allow the sensitivity to be adjusted for fast/quick or long/slow interfaces.

Widebeam technology is employed to provide the highest degree of performance and operation. This technology offers considerable advantages over other ultrasonic meters because it allows the highest degree of performance combined with continued operation under difficult conditions that typically overcome most other instruments. Widebeam technology also permits continued operation over an exceptional range of products.

## Clamp-on ultrasonic interface detectors are ideal for a number of applications, including:

- Gasoline interface detection
- Multi-product interface detection; densities can range from liquefied gas to heavy crude oils
- Product identification
- Auto batching control
- Detection of entrained water and gas in all products
- Scraper ("pig") detection

## Clamp-on ultrasonic interface detectors are available in three different enclosures:

- Standard wall mount IP65 (NEMA 4X) enclosure
- Explosion proof compact IP65 (NEMA 7) enclosure
- Explosion proof wall mount IP66 (NEMA 7) enclosure



For more information contact:

Siemens Energy & Automation, Inc.  
CoC Ultrasonic Flow  
155 Plant Avenue  
Hauppauge, NY 11788-3801

1-800-275-8479  
sales.ultrasonicflow@siemens.com