

# SIEMENS

*Ingenuity for life*



Process Instrumentation

## Best-in-class performance for day-to-day operation.

Digital innovation in ultrasonic flow – SITRANS FS230.

[usa.siemens.com/clamp](http://usa.siemens.com/clamp)

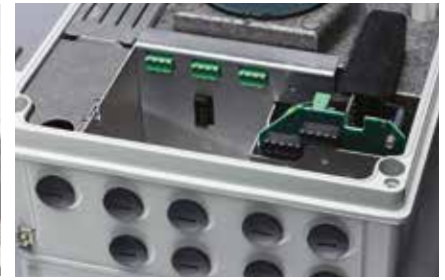


By combining the new SITRANS FST030 transmitter with dependable SITRANS FSS200 sensors, Siemens has developed an exceptional clamp-on ultrasonic flow measurement solution: the SITRANS FS230. Suitable for virtually any liquid application, the FS230 offers outstanding cost savings without sacrificing the high levels of accuracy and reliability required to run your processes at peak efficiency.

The FS230 flow system has been designed to deliver market-leading accuracy and data update speed while also ensuring unmatched noise immunity and simplicity in use. Based on a digital platform and driven by a powerful measurement algorithm, the FS230 features a range of innovations to enhance your operations.

**Ingenuity for high precision and reliability**

At the heart of the innovative SITRANS FST030 transmitter is the PerformancePLUS™ algorithm for fast and reliable signal processing, and the



#### Simple to use

Experience easy handling with a large, fully graphical display. Intuitive navigation, a built-in pipe configuration menu and multiple setup wizards offer you full support from the very first moment.

#### Service in a flash

Enjoy the benefits of the innovative SensorFlash®. In addition to storing all settings, calibration data and certificates, it provides comprehensive audit trails with quick information transfer for more efficient service and less downtime.

#### Fully customizable

Take advantage of a broad range of programmable I/O, communication, Ex approval (pending) and NAMUR options – then configure your alarms, 3 totalizers and up to 6 different views at once.

Digital Sensor Link (DSL), which digitizes the ultrasonic signal at the earliest stage of measurement for a strong signal-to-noise ratio.

The results: high accuracy of 0.5 to 1% of flow rate and repeatability of 0.25% according to ISO 11631 along with a very stable zero point and high resistance to process noise.

The 100 Hz data refresh rate of the FST030 brings you the ultimate in diagnostic and error handling efficiency, while the intelligent pipe configuration menu optimizes sensor placement and compensates effectively for various application conditions, including flow profile anomalies.

#### Unique support tools and tailoring

The SITRANS FST030 offers user-friendliness and customization options at every stage of installation, commissioning and day-to-day operation.

The SensorFlash® microSD card gives you access to all product data, certificates, operating instructions and audit trails directly from a PC or via the transmitter's USB port, and also makes it easy to transfer settings between devices.

The graphical interface features intuitive menu navigation with the ability to display up to 6 user-configurable parameters on the same screen, along with a comprehensive set of diagnostic tools to improve your monitoring ability and streamline your operations.

#### In addition, the FST030 brings you:

- Low power consumption of only 10 W for improved energy efficiency
- Easily accessible USB user interface for quick servicing and minimized downtime

- Compliance with current electro-mechanical compatibility (EMC) standards
- Optional commissioning and other service packages from Siemens experts, with straightforward ordering directly from the PIA Life Cycle Portal

#### High performance, low maintenance

To cover the widest possible range of applications and challenges, Siemens offers 3 different types of SITRANS FSS200 clamp-on ultrasonic sensors in multiple sizes: WideBeam® (High Precision), Universal and High Temperature.

Sensor Selection	Universal	High Temp.	Wide Beam
Homogeneous liquids with moderate aeration	X	X	X
Moderately aerated liquids and multiple products		X	X
Liquid temperatures from -40 to 450 °F		X	
Steel pipes and liquid temperatures from -40 to +250 °F			X
Non-steel pipes and liquid temperatures from -40 to +250 °F	X		
Steel pipes with diameter/wall thickness ratio above 10	X		
Improved stability and repeatability on steel pipes			X

Siemens Industry, Inc.  
 Process Industries and Drives  
 100 Technology Drive  
 Alpharetta, GA 30005  
 1-800-365-8766

Subject to change without prior notice  
 Order No.: PIFL-00109-0317  
 All rights reserved  
 Printed in USA  
 © 2017 Siemens Industry, Inc.

Subject to changes and errors. The information given in this document only contains general descriptions and/or performance features which may not always specifically reflect those described, or which may undergo modification in the course of further development of the products. The requested performance features are binding only when they are expressly agreed upon in the concluded contract.

All product designations may be trademarks or product names of Siemens AG or supplier companies whose use by third parties for their own purposes could violate the rights of the owners.