SIEMENS

PROCESS INSTRUMENTATION

SITRANS FS230: Taking clamp-on flow
to a new level of performance!

usa.siemens.com/clamp

1. Update Rate - 100Hz Output – Ability to react to sudden changes in velocity, speed of sound – Applications such as compressor stations and field proving (small volume).

2. Digital Platform – Siemens Clamp-on and Coriolis flow meter technologies share a common platform; utilizing the same communication and display modules. This benefits customers through reducing inventory spares and similarity in configuration. Newly released communication modules and product upgrades can be shared across digital platform.

3. Enhanced bi-directional flow accuracy – Siemens Patented Pipe Configuration Menu (now called "Disturbed Flow") enables programming of both Upstream and now Downstream pipe anomalies (obstructions), along with straight pipe length, for optimizing installation accuracy in applications where ideal pipe configuration (straight run) is unavailable.

4. Simulator – PC based "LUI" Simulator Software Tool duplicates full transmitter program menu. Enables full programming experience for familiarization with system menu, training end-users, and assisting customers over the phone.

5. Memory / Logging – Included 4 GB SDcard (upgradeableto 32GB). Provides access to certificates, calibration data, and site programming. The FS230 datalogger is independent allowing for simultaneous data logging and Modbus communication.

6. Connectivity – Easily connect a PC via the micro USB port using either FSS200 utility software or PDM. Full system programming can be implemented through PDM while the FSS200 utility software enables application review, uploading of AGA-8 tables and diagnostics review / download. Connection with either of these software packages will not interfere with Modbus communication.

7. Configuration – Easy programming with setup wizards. Transmitter configuration can be easily transferred to multiple meters that require the same configuration by simply inserting the SD card of the previously programmed transmitter. Data will be automatically read by the new transmitter and then stored on its own supplied SD card.

8. HMI – Easy to read and use graphical interface. Configurable screen enables users to customize what data is shown on the local display (with up to six parameters). Intuitive, menu-driven navigation wizards step-by-step help text for setup and troubleshooting.

9. Transmitter Door – Removable door, ease of installation-mounting, wiring, etc.

10. Servicing – QR code to access transmitter build data, certificates, calibration data, manuals, set up videos and trouble shooting guides.

11. Module Integrity – Ethylene-propylene copolymer material secures module cassettes within meter housing for easy access– No tools needed!

12. Communications – Standard HART (7.5) optional Modbus RTU, both enable read/write capabilities.

13. Wiring – Simplified wiring. All terminations for I/O's, communications, RTD's and power are accomplished with easily accessible connection terminals.

14. Pipeline Pig Detection – Standard in liquid hydrocarbon firmware version. Enhanced pig detection via new sensing algorithm will detect pig passage with high accuracy/reliability.

15. Power – Dual powered (AC/DC). Ability to daisy chain power.

16. Temperature (RTD) Inputs – Accepts a variety of RTDs; 100, 500, 1000Ω, 2, 3 or 4-wire.

17. Sensor Spacing (Advanced) – Transmitter enables direct input of transducer spacing if it differs from meter-provided value.

18. Approvals – FM/FMc/ATEX/IECEx Approvals.

19. Noise Immunization – The transmitter establishes the resonance (transmit) frequency of the pipe under measurement then automatically "narrow band tunes" itself to that frequency to virtually eliminate environmental noise interference.

20. Configurable I/O – General purpose application transmitters support both active or passive I/O's which are field configurable. In agency approved transmitters for use in hazardous applications the I/O's can be configured as active or passive during the ordering process.

21. Local User Interface – Graphical local user interface or blind version transmitter available.

22. Temperature and/or Pressure Compensated – FS230 can provide pipe expansion compensation for both temperature and/or pressure guaranteeing a accurate and repeatable measurement no matter how conditions change.

23. Service and Support Wizard – Field service and upgrades are easy, using the service and support wizard, which automatically loads parameter information into new components.

24. Change Log – Parameter change log, generates and saves a time stamped entry onto the SD card to track when the device has been changed.

25. Totalizers – Three custom configurable totalizers providing forward, reverse or net flow counting.