

SIEMENS



PROCESS INSTRUMENTATION

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

usa.siemens.com/clamp

1. Update Rate - 100Hz Output – Ability to react to sudden changes in velocity, speed of sound. Benefits applications such as fast-fill operations and low-flow dosing (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 the 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 SD card (upgradeable to 32GB). Provides access to certificates, calibration data, and site programming. The FS230 datalogger is independent, allowing for simultaneous datalogging 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. 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 with step-by-step help text for setup and troubleshooting.

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

10. Servicing – QR code to access transmitter build data, certificates, calibration data, manuals, setup videos and troubleshooting 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. Power – Dual powered (AC/DC). Ability to daisy chain power.

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

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

17. 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.

18. Approvals – FM/FMc/ATEX/IECEX approvals.

19. Configurable I/O – General purpose application transmitters support both active or passive I/O's that 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.

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

21. Temperature and/or Pressure Compensated – Provides pipe expansion compensation for both temperature and/or pressure, guaranteeing an accurate and repeatable measurement no matter how conditions change.

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

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

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



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