FloBoss™ S600+ Flow Computer

The FloBoss™ S600+ Flow Computer (S600+) is a panel-mount fiscal flow computer designed specifically for hydrocarbon liquid and gas measurement where versatility and accuracy are high priorities. The FloBoss S600+ builds on the success of its predecessor, the S600, which has been the market-leading panel-mount flow computer from Emerson Process Management.

The standard features of the S600+ make it ideal for the following applications:

- Fiscal flow measurement
- Custody transfer
- Pipeline measurement
- Batch loading
- Meter proving applications
- Single or multi-stream measurement
- Flow control

The S600+ supports multi-stream (up to ten with optional expansion modules), multi-station (up to two) applications that are configured for simultaneous metering of gas, wet gas, crude oil, refined products, LPG, NGLs, etc. The S600+ can accommodate both a liquid and a gas station simultaneously.

Supported flow meters or primary elements include turbine, ultrasonic, Coriolis, positive displacement, orifice, venturi, annubar, V-Cone®, and Rosemount conditioning orifice plate.

The S600+ supports an unprecedented number of global measurement standards including those covered by AGA, ISO, GPA, GERG, and GOST for gas applications, and API, ASTM, GPA, and NORSOK for liquid applications.

The S600+ uses distributed processing to achieve maximum performance. The S600+ contains a more powerful main processor than the original S600. The new CPU incorporates a hardware floating point processor and performs faster calculations than before, minimising uncertainty and maximising control.

Each additional expansion module utilises local processors. The local processors convert inputs from field instrumentation into engineering units and drive output signals for process control. Background checks are performed continuously and locally in each module to assure operational validity.

All metering calculations are performed using 64-bit (double) precision floating point numbers for the highest accuracy and API compliance. Cumulative totals are stored in three separate memory locations (Tri-reg format) for maximum integrity. The LogiCalc user language allows double precision mathematical functions to be performed on database objects.

Data logging and archiving capabilities have been significantly increased, and include an extended historian. A typical archive for a ten-stream application would include 333 days of monthly, weekly, daily and hourly reports; plus 50,000 events and 50,000 alarms. Support for FlowCal CFX files has been added for enhanced data integrity.

The S600+ includes an eight-line LCD display and a 29-key keypad. The display and keypad on the S600+ enable you to review or modify system parameters without the need for a PC. The display supports both English and Russian character sets.

Compatibility

The S600+ is fully backwards-compatible with the previous S600 model. The device utilises existing configurations and tools that you are familiar with. This saves you time otherwise spent on learning and configuring with new tools, and helps to preserve your previous capital investments. You can easily convert existing S600 units to S600+ units, bringing all of the benefits of the new product to your existing installation.

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