

Seamless integration in just a moment

The new Foundation Fieldbus module completes the range of digital communication modules and makes flow measuring easy.



SITRANS F

Answers for industry.

SIEMENS

Process automation made easy with digital fieldbus technology



Siemens flowmeters are based on a highly modular concept - allowing flowmeters and sensors to be installed, configured and operated very easily into any control system.

Today, effective management and controlling device data and plant operations are only possible by using the latest digital communication protocols like Foundation Fieldbus, PROFIBUS and others. The transmitter communication modules from Siemens are available with these bus systems, enabling easy integration to almost any overall process control system. Moreover, the communication modules also makes flowmeter networking installation, configuration and operation easy.

The Foundation Fieldbus communication modules from Siemens Flow Instruments are approved by the Fieldbus Foundation, based on host tests.

Plug & Play integration – saving time and money



The SITRANS F M MAG 6000 and SITRANS F C MASS 6000 transmitters are part of the Siemens AG USM II family of flow-transmitters. Designed to provide high performance, accurate and reliable flowmetering in any application.

Up and running in a moment

USM II, the Universal Signal Module based on the simple “Plug & Play” principle, makes easy flowmetering integration possible. You simply add a new communication module by clicking the new bus module into the transmitter. An operation, which can be performed within seconds.

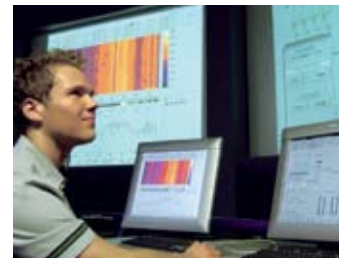
This highly modular concept has obvious benefits –

- saving time and money – when just replacing the bus system, instead of the entire transmitter
- minimizing downtime during maintenance and service thanks to the easy and fast replacement of the communication module
- device can be used and exchanged, even in highly explosion-hazardous areas
- upgrade and integrate future communication challenges in the transmitter just by changing the communication module



USM II makes installation and configuration easy, and it is compatible with virtually any communication standard.

The easy integration and modularity of the USM II platform also allows future upgrades without investing in new flowmeters.



Foundation Fieldbus – efficient total plant communication



The Foundation Fieldbus communication modules gives you total plant system control from overall process control system to every single device installed in your plant.

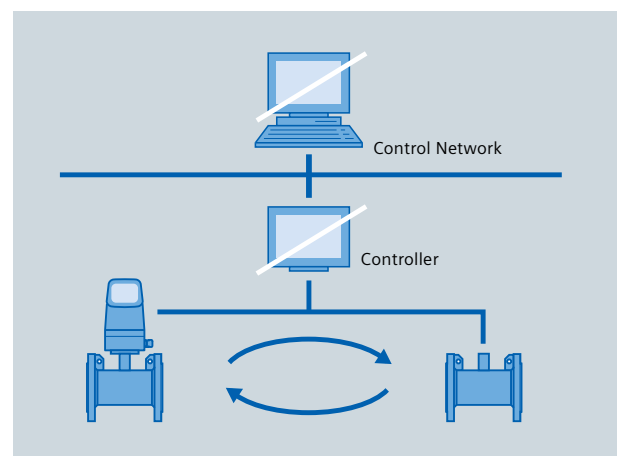
Every Foundation Fieldbus communication module has several blocks:

- Resource block contains the device-specific characteristics
- Transducer block contains all data specifying the measurement technology
- Analog input function block - a universal interface providing the process variables and status information on the fieldbus
- Control function block - allowing control to be performed by fieldbus devices

Control In The Field

Intelligent field devices have microprocessors with high levels of computing power. This allows control loops to run independently in the event that communication to the host is lost. Bus modules enable such functionality and the Foundation Fieldbus module has implemented all necessary features to support Control In The Field.

| Technical specifications | |
|--------------------------|---|
| Enhanced Blocks | RB |
| Standard Blocks | 1*RB, 9*AI FB, 2*INT FB, 4*DO FB, 1*PID FB, 1*AR FB, 1*MAI FB, 1*SC FB, 1*IS FB |
| Customized Blocks | 1 Flow TB, 2* Totalizer TB, 1* Batch TB, 1*Diagnostic TB, 1* Local Display TB, 1*I/O TB |
| H1 Profile Class | 31PS, 32LT |
| H1 Device Class | Link Master |
| Device Description | Both non enhanced and enhanced EDDL |



Reliable, precise and secure flow measurement for the Chemical Industry and the Oil & Gas industry



Siemens flowmeter solutions are designed to meet the industries' toughest challenges offering an exceptional safety concept, combined with reliable precision measurement and communication for the Chemical Industry and on/offshore Oil & Gas Industry.

Highest level of safety and quality for the Chemical Industry

Siemens offers a full range of ATEX and FM/CSA approved electromagnetic flowmeters for remote or compact installation. Every component Siemens makes combines the highest levels of safety, quality and reliability with a low cost of ownership.

The design is robust, all liners are chemically resistant and fully operational in hazardous environments and difficult applications.

Your benefits

- Intrinsically safe rated inputs and outputs, category ia
- Compliance with NAMUR NE 21
- Multi-informational, multi-lingual display
- Sophisticated self-diagnosis
- Error log and error-pending indication
- Choice of corrosion-resistant sensor materials

Precision and reliability in the Oil & Gas Industry

Siemens provides solutions with a number of coriolis mass flowmeters installed in oil & gas applications all around the world.

Thanks to the unique sensor design with no moving parts, maintenance-free operation and low pressure loss when measuring mass flow, volume flow and density temperature is achieved.

Your benefits

- No moving parts means maintenance-free operation
- Low pressure loss due to sensor design
- Multi-parameter measurement mass flow, volume flow, density, temperature and fraction
- Straight forward calibration, traceability on liquids as well as gases
- Sensor range covers most applications
DI 1.5 ... DN 150 (1/16" ... 6")

Get more information

www.siemens.com/processautomation
www.siemens.com/processinstrumentation

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