

SIEMENS



Process Instrumentation

World's most cost-effective retrofit flow solution

The high-performance, low-maintenance SITRANS F US SONOKIT

Answers for industry.



The Sonokit with SITRANS FUS080 battery-operated transmitter and solar-powered GPRS communication is ideal for this very remote water distribution station where no mains power is available. The rugged transducers easily withstand flooding, an ongoing threat to this application.

The retrofit advantage

When you require high performance and low maintenance flow measurement without process downtime, Siemens brings you the most cost-efficient retrofit solution on the market: SITRANS F US SONOKIT.

Paired with the advanced SITRANS FUS060 or battery-powered SITRANS FUS080 transmitter, the Sonokit is versatile and robust enough to work on a wide variety of liquid applications, including those characterized by harsh environmental conditions such as constant flooding, high process temperatures and high pressures. The wetted transducers also demonstrate an exceptional accuracy of 0.5 to 1% of flow on pipelines of virtually any size; the larger the pipe, the more precise the result.

SITRANS FUS080 - the beauty of battery power

As the world's first and only battery-powered weld-in retrofit flowmeter, the Sonokit is a perfect solution for remote water and wastewater applications where mains power may not be available. The SITRANS FUS080 transmitter provides the flow system with up to 6 years of battery life, ensuring long-term performance and stability.

Performance data on demand

The Sonokit is compatible with Siemens' unique SIMATIC PDM software tool, providing instant access via laptop to all meter settings and real-time operational data. And if your Sonokit is outfitted with the SITRANS FUS080 transmitter, the SIMATIC PDM can be used to perform on-site testing and verification and generate a printed Qualification Certificate with all pertinent measurement data.

Easy configuration and ordering

The Sonokit can be configured to include exactly what you'll need to build an inline ultrasonic flowmeter. At ordering you input all application specifications including pipe size and material, number of paths, transmitter type and whether hot-tap installation is required.

Your customized Sonokit box will come with:

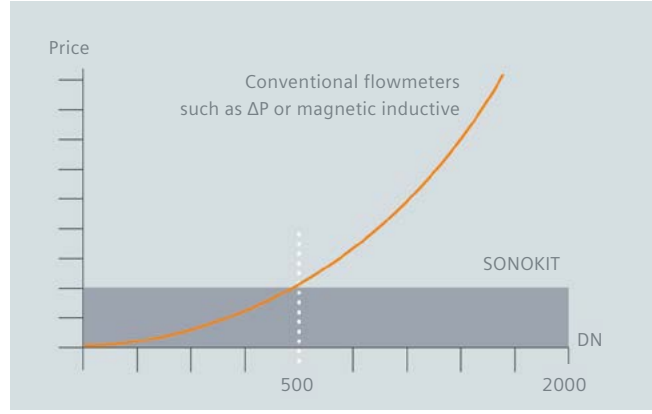
- SITRANS FUS060 or FUS080 transmitter
- SONO 3200 transducers
- Transducer cables
- Papers to aid in transducer alignment
- Transducer holders and mounting plates (for empty pipes only; must be ordered separately for hot-tap installations)

Transducer installation tools are not included and require separate ordering, but can be reused with future Sonokit installations.





The large pipe size of this irrigation pumping station made the Sonokit with SITRANS FUS060 transmitter a highly cost-effective choice for flow measurement.



Because component price remains the same regardless of pipe size, no inline ultrasonic flow solution costs less than the Sonokit. The larger your pipe, the greater your savings.

Fits in almost anywhere

Depending on which transmitter is used, the adaptable Sonokit is well suited for many different applications across several industries, including:

- Water and wastewater treatment plants
- Irrigation systems
- Water distribution stations
- District heating and cooling plants
- Leak detection systems
- Power stations
- Petrochemical plants
- Industrial processes with non-conductive liquids

Peace of mind from a trusted partner

When you choose the Sonokit, you are investing in reliable performance, very low operating costs and – most importantly of all – your own peace of mind.

Your benefits

- Solid stainless steel construction and lack of moving parts for virtually maintenance-free operation
- Designed for quick and easy transmitter and transducer replacement without the need for process shutdown
- Automatic calculation of the calibration factor when pipe geometry data are entered in the transmitter
- Around-the-clock support 7 days a week by our global network of service specialists in 190 countries
- SIMATIC PDM compatible

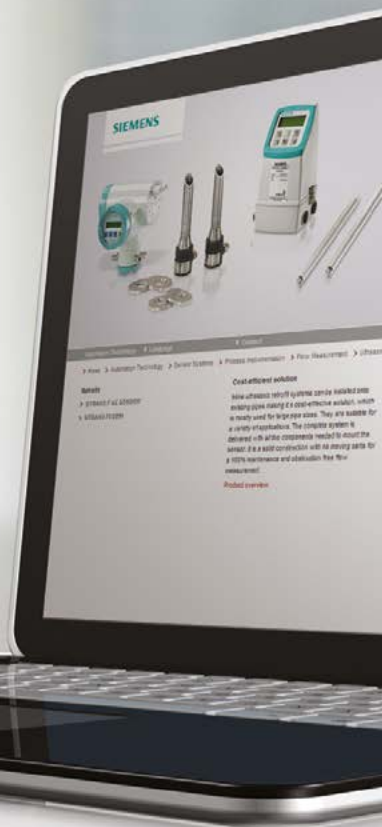
	SONOKIT with SITRANS FUS060 transmitter	SONOKIT with SITRANS FUS080 transmitter
Media	All fluids	Water
Size 1-path	DN 100 ... DN 4000 (4" ... 160")	DN 100 ... DN 1200 (4" ... 48")
Size 2-path	DN 200 ... DN 4000 (8" ... 160")	DN 200 ... DN 1200 (8" ... 48")
Power supply	Mains	Mains or Battery
Communication	HART, current output, pulse	MODBUS, pulse
Accuracy	Better than 0.5%	
Pressure	Max. 40 bar (580 psi)	
Frequency	15 Hz	15 Hz or 0.5 Hz
Media temperature	-10 ... +200 °C (+14 ... +392 °F)	
Ambient temperature	-20 ... +50 °C (-4 ... +122 °F)	-10 ... +60 °C (+14 ... +140 °F)
Transducer housing	IP67 (NEMA 6) or IP68 (NEMA 6P)	
Enclosure	IP65 (NEMA 4)	IP67 (NEMA 4X/6)
Ex version	Yes	No
Commissioning	Keypad or PDM operated	PDM operated

Your all-in-one-solution:
www.siemens.com/process-instrumentation

Siemens Process Instrumentation offers best-in-class measurement for your application.

The total solution provider for flow, level, pressure, temperature, weighing, positioners and more.

Scan to discover our extensive service portfolio



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