Challenge
In January 2013, a clamp-on flow meter rental inquiry came to Siemens from a customer asking about a temporary installation. He needed to do some troubleshooting on a sea-going vessel with various piping systems carrying fuel, potable water, seawater, etc. The customer stated that the piping dimensions could range from 0.5” up to 12”, however, they were especially interested in the Diesel fuel lines measuring 0.5” to 2”. He also noted that he had previous experience with the former Controlotron 1010 model UT flow meter and was interested in seeing what the current Siemens version was like, in addition to other portable versions currently being offered by Siemens.

Solution
After discussing it with the customer, the initial request developed into a rental quotation for a FUP1010 Dual Channel Portable unit with size B3 and C3 Transit-Time Universal Transducers. The customer said that the ship in question was due into port within a week. He took the quotation and information to his superior for immediate review and approval so the order could be processed for the rental equipment in time for the ship’s arrival.

The following day, the customer sent an email asking for a revised rental quotation to add three additional transducers to include another set of B3 and C3 Universal Transducers to allow for balancing, as well as a set of Doppler Transducers. The Doppler Transducers were requested in case they were needed for aerated liquids. With the movement of a ship over the ocean, aerated liquids are always a possibility. A revised quote was sent back the same day.
Results
The rental equipment was shipped, just in time, to meet the ship pulling into port. The customer used the rental equipment for several days aboard the ship and then shipped it back to the warehouse. They were able to troubleshoot their application very quickly during the time the ship was scheduled to be in port.

The customer sent an email to Siemens stating, “Thanks for all the help, it worked like a charm”.

About the SITRANS FUP1010 Portable Clamp-on Flow Meter
The SITRANS FUP1010 clamp-on non-intrusive ultrasonic flow meter offers maximum versatility plus battery power for portable field use. It can operate in either WideBeam transit time or Doppler mode, making it suitable for virtually any liquid.

SITRANS FUP1010 is ideal for general flow survey work where high accuracy is required. It is offered in single and dual channel/path configurations in a weatherproof enclosure. The portable meter is also available as a pre-configured Water Check Metering Kit for the water and wastewater industry. Application examples include raw and potable water, sludge, mixed liquor, hot and cold water systems, thermal energy and batching.

Benefits
- Major cost savings, thanks to Siemens ability to respond quickly with the right tool to do the job.
- Installation is quick and inexpensive because there is no need to cut the pipe or stop the flow.
- Can easily be used in the field thanks to meter portability and one hour quick charge for four hours of normal operation
- All rental units are supplied in a waterproof enclosure with a dual channel clamp-on flow meter. Withstands rain damage and rough treatment that would destroy most other meters
- Minimizes cost by allowing simultaneous measurement of two pipes (dual channel)
- Allows storage of numerous site data, making it very suitable for survey use
- Measures a wide variety of liquid applications

The information provided in this brochure contains merely general descriptions or characteristics of performance which in case of actual use do not always apply as described or which may change as a result of further development of the products. An obligation to provide the respective characteristics shall only exist if expressly agreed in the terms of contract.

All product designations may be trademarks or product names of Siemens AG or supplier companies whose use by third parties for their own purposes could violate the rights of the owners.