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## SYSTEM302 successfully completes HIST

**S**YSTEM302 has successfully completed the FOUNDATION™ Fieldbus Host Interoperability Support Test (HIST) performed by the Fieldbus Foundation.

This independent interoperability test has demonstrated that SYSTEM302 incorporates the features required to configure and monitor FOUNDATION™.

Fieldbus devices from a wide range of other manufacturers making a plethora of instruments available to SYSTEM302 users. A rapidly expanding range of registered third-party devices can be tightly integrated to SYSTEM302 with ease. End-users and system integrators



can rest assured that a mix of equipment from different suppliers will work together and that all functions in these devices can be fully utilized and

configured with the same single tool. HIST is the host-device equivalent of the field instrument interoperability registration. The HIST checks for what Fieldbus features are available in the host, therefore there is no "passed" for this test, only a "completed" accompanied by a checklist of available functions.

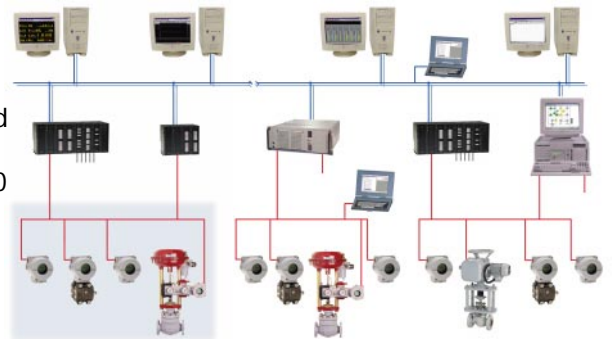
HIST is of great significance to users because it obsoletes the proprietary certification of instruments done by some system suppliers in the past to imply that only some devices are compliant with the host. HIST is a non-affiliated test that assesses if the host has the framework to be compliant to any registered device. It is a modular concept. By using a HIST host and registered devices an interoperable system is achieved.

## Servers pass OPC compliance test

**T**he OPC servers for the SYSTEM302 Fieldbus interface card PCI for H1 and the DFI302 linking device for HSE have passed the rigorous OPC Foundation interoperability test for version 2.0 of the OPC specification. This interoperability test has demonstrated that SYSTEM302



data related to the process as well as the devices and control strategy can be disseminated throughout the enterprise making a plethora of software from a wide



range of manufacturers available to SYSTEM302 users. Users can select the process visualization software of their choice and additionally select from a rapidly



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expanding range of software for advanced control, historization, statistical process control, batch management, links to the office and business environment etc. These applications can be tightly integrated to SYSTEM302 with ease. End-users and system integrators can rest assured that a mix of software from different suppliers will work together and that all data from the process and in the devices can be fully utilized from any software, with the same tag name.

In conjunction with the OPC and server compliance test passed by the SYSTEM302

H1 and HSE Fieldbus interfaces SYSTEM302 has been demonstrated as a completely open system, interoperable with both devices and software from other manufacturers enabling powerful solutions for the users.



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## During the Year 2000 forty percent more SYSTEM302 sold

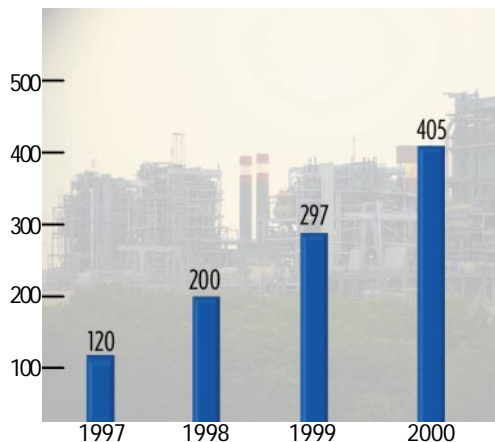
Control systems sold using Fieldbus Technology had a almost 40% increase in the year 2000 as compared to 1999. During the year 2000, 108 Systems making a total of 405 SYSTEMS302 world over. This was 40% above last years total.

Among the larger projects in the year 2000 were Corning Concord in the USA

with approximately 500 measuring devices, El Tesouro Copper Extraction Project in Chile with over 200 measuring devices, Univen Fabril in Brazil with about 180 measuring devices. There were several with 50 to 100 devices.

Today SYSTEM302 is present in all the continents. Out of 108 systems sold in the year 2000, 43 were in South America, 32 in Europe, 23 in NAFTA (USA, Mexico and Canada) and 9 in Asia.

There are several advantages of the Fieldbus over the conventional DCSs, e.g., quantity and quality of information available, diagnostics, control close to the process, availability of many function blocks, quicker maintenance, lower engineering cost, lower installation costs, modular, ease of operation etc. These factors makes the SYSTEM302 more attractive. This is the reason due to which more and more users are opting for the Fieldbus SYSTEM302.



# FLASH OTC: Smar shows SYSTEM302 on shore and offshore applications



From left: Mauricio Alvarenga/ONIP-Director; Marcelo Lopes/Marketing Coordinator-Smar Intl.Corp.; Eduardo Rappel/ONIP-General Director and Flávio Fontes/Regional Manager-Smar Brazil

The 2001 Offshore Technology Conference (OTC), the world's leading oil and gas conference and exposition, brought nearly 48,000 attendees to Houston's Reliant Park for unparalleled experiences with emerging technology, innovative ideas, and industry leaders.

The theme of the event, "One World, One Event," summarizes the transnational nature of this preeminent offshore conference. "OTC 2001 is the one place where we, as oil and gas industry professionals, can find the answers to our questions, through technical sessions and by exploring the exhibit floor," said Wolfgang Schollinberger, OTC 2001 Chairman.

Smar, participated in this show in conjunction with other 16 companies from Brazil and was one of the co-tenant from ONIP (Organizacão

Nacional da Indústria do Petróleo - translates National Organization of the Petroleum Industry). The ONIP organization was created in 1999 - Rio de Janeiro, as a forum for discussion and cooperation among the companies involved in exploration, production, refining, processing, transportation and distribution of gas, crude and oil products, and instrumentation suppliers.

Smar - the world's leading fields authority with more than five years of Fieldbus experience and hundreds of installations worldwide, shown the SMAR Series 302 Pressure Transmitters, Temperature Transmitters, Current to Fieldbus Converters and Positioners that have successfully passed the Fieldbus Foundation's interoperability tests. These instruments are part of the SYSTEM302, which provides a total solution for onshore and offshore plant automation.

## Smar wishes success to the new entrants:

Mr. Bharat Sharma has joined Smar as Regional Business Development manager for middle east. Mr. Sharma's last assignment was with Invensys in India. He will be stationed in Abu Dhabi to be able to exercise his activities in his region efficiently.

Mr. Edgardo Zapata has been contracted by Smar to coordinate sales activities in South America. Mr. Zapata replaces Mr. Eduardo Munhoz who left Smar early this year. Mr. Zapata hails from Honduras and has been active in Brazil in sales activities for the past decade.

## New Representatives in Scandinavia

Smar has appointed new representative in Norway, Sweden, Denmark and Finland. These are m/s Autek - Norway, Beving Elektronik - Sweden, Sarlin - Finland, Geveke Teknik - Denmark

The companies involved have been active in the field of automation for a varying number of years. Smar wishes them good luck and a long and fruitful relationship.



## DC302 - Fieldbus Remote I/O

### Making Fieldbus and conventional I/O easy

A mixed traditional and fieldbus environment is inevitable during the transition to a Fieldbus technology. Smar is launching the DC302, making the integration of Fieldbus and conventional I/O easy. Discrete devices such as pressure switches, push buttons, on/off valves, pumps and conveyors are integrated to the system over the FOUNDATION™ H1 field-level network using DC302, where is explored the potential of FOUNDATION™ protocol, making the system homogeneous and control strategy configuration easy. Conventional discrete I/O now works together with pure Fieldbus devices on the same network and in the same loop.

Instantiable function blocks provide great flexibility in control strategy. The Flexible Function Block (FFB) provides logic such as AND, OR, XOR, NOT etc. as well as Flip-Flops, Timers and Counters etc. Only a single programming language has to be used.

The DC302 is fully configured from the Syscon software in SYSTEM302 or any other FOUNDATION™ Fieldbus configuration tool.

The DC302 is a simple low-cost DIN-rail mounted unit and it is a single integrated easy to use piece of equipment including power, control, networking and I/O under one compact device requiring less panel space than other solutions. It may be installed close to the sensors and actuators, thereby eliminating long wire runs and associated marshalling panels and cable trays for the conventional I/O, with subsequent savings further reducing overall system cost.



### Errata

Smar Notes 61 - page 3 - "Smar signs global contract with Cargill"  
In the 3rd paragraph the text should read "citric acid" rather than "uric acid". We apologize for this.

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