



"Infaumation" Wishes all the Readers a Very Happy & Prosperous New Year



# infaumation

Auma India Quarterly Newsletter (Jan – Mar'11)



**I wish all our customers and well wishers a peaceful and prosperous 2011. Year 2010 proved to be a challenging year in which significant all round growth resulted in an unprecedented situation of over 50% growth in orders. Auma India increased its production significantly to meet this situation, but still there were many gaps in expectations and actual supplies. Auma India is investing in new world-class machines to debottleneck critical machining areas to improve the delivery situation from early 2011. I take this opportunity to thank all our customers for patronizing Auma in the past and look forward for similar support this year as well.**

  
Arvind K Goel

Managing Director, Auma India

**AUMA**



Maurizio Brancaleoni

## Message from the MD, Auma Italiana & President, CEIR

It was my pleasure to be a part of Indian Valves Conference on Dec 6, 2010 in Mumbai. It gave me immense pleasure to share my views with the Indian valve makers as I believe that valve manufacturing community is coming closer on account of global-ization. I am pleased to note that Auma India has been working with valve makers and end users to provide solution specific to their requirement. I wish them all the best in future.

### Rajiv Gandhi Thermal Power Plant, Khedar

1200 MW Rajiv Gandhi Thermal Power Plant is the first project to be awarded the mega project status in the northern region under the mega project policy of the central government. More than 450 actuators for the operation of the plant have been supplied by Auma India and Auma Group companies.



### Captive Cogeneration Power Plant, IOCL Panipat

Auma has supplied around 200 actuators with integral starters to a 238 MW Captive Power Plant at IOCL Panipat. In addition to these weather-proof actuators, Auma had earlier supplied actuators with control modules suitable for MODBUS RTU protocol along with SIMA Master Station.



### **Torekadanahalli (T K Halli) Water Treatment Project, Karnataka**

Auma India has received a prestigious order for supplying more than 60 actuators (actuators and bevel gearboxes) to a mega Water Treatment Plant at Torekadanahalli (T K Halli) to automate sluice gates. This Water Treatment Plant will have a capacity to purify 500 MLD of water, for supply to the Bangalore city under Cauvery IV stage II phase project.

### **Ennore Greenfield Oil Terminal Project, Ennore**

Auma is supplying more than 100 explosion-proof actuators with wall mountable controls suitable for PROFIBUS DP communication protocol to the prestigious HPCL's Ennore Greenfield Oil Terminal Project. One special feature of these actuators is that controls could be separately mounted on the wall away from the actuators, thus satisfying the "IOC FIRE ACCIDENT INVESTIGATION REPORT" requirement.

This Ennore terminal would have tankages of capacity 1,40,000 KL for storage and dispatch of products of Motor Spirit (MS), High Speed Diesel (HSD), Superior Kerosene Oil (SKO) and Aviation Turbine Fuel (ATF).

### **Sewage Treatment Plant, Chandigarh**

Auma India has received an order for supplying more than 150 actuators to 50 MLD capacity Sewage Treatment Plant and Main Pumping Station of Chandigarh Municipal Corporation.

### **Auma India Enhances its Machining Capacity**

Auma India under its accelerated expansion plan to enhance the machining capacity, is procuring DMG make Two Spindle CNC Turn Mill Center CTX beta 500 and Turn Mill Center CTX 510 eco V3. The high-tech fittings in the machines would be able to perform numerous demanding operations, in turn helping Auma India to meet increasing customer demand for quality product.



## Comparisons of Redundant Digital Communication Schemes in Actuators

Today many users are using digital fieldbus communication to control electrical valve actuators in various plants. However questions do arise at the design and engineering stage of the plant about the type of redundant communication schemes/topologies to be adopted. It should be noted that such redundancies may also have to be supported by the fieldbus solution chosen. This two part article will examine and compare the solutions available.

### Understanding redundant loop topology

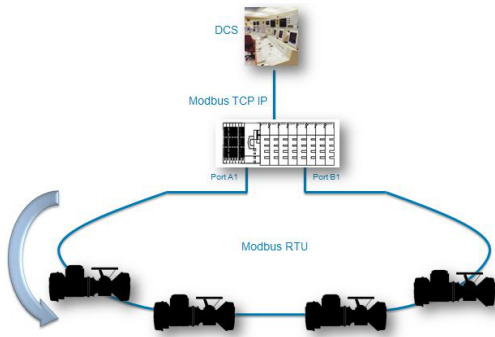


Fig. 1

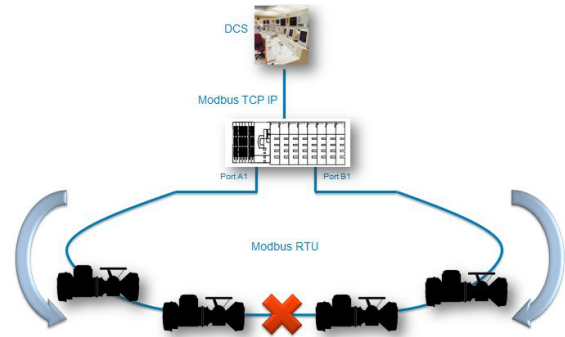



Fig. 2

In loop topology, communication between the Master Station/DCS and actuators happens on one physical (two wire shielded cable) layer through RS 485. Both the ends of the two wire are terminated at the two ports available at the Master Station. Normally only one port is active and communication / polling takes place unidirectionally (Fig 1).

However in case of two wire cable breakage, the communication takes place from both the ports bidirectionally till the point of breakage (Fig. 2). Thus communication redundancy is achieved. 

### Understanding redundant line topology

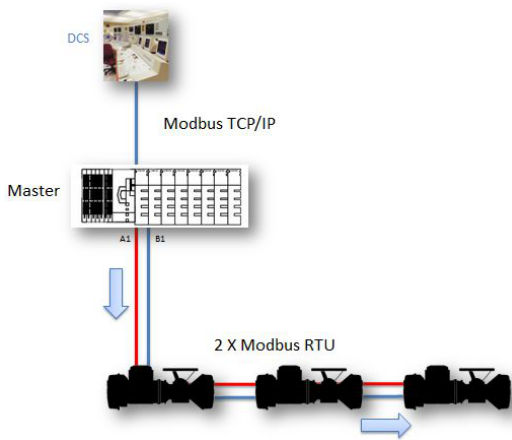


Fig. 3

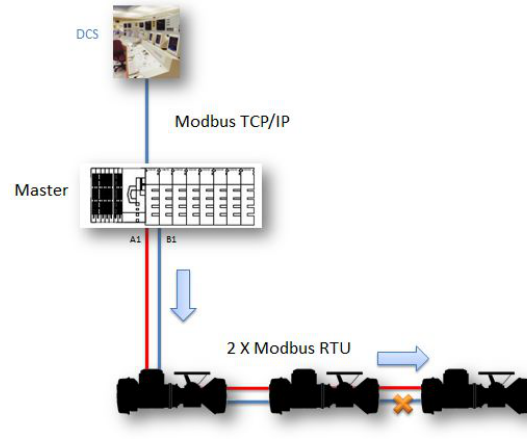


Fig. 4

In redundant line topology, two dedicated, digital two wire communication lines start from the Master Station. Both the two wire communication channels originate from a port of the Master Station and end in the last actuator in the line. Communication normally takes place in one of the predefined channel / line selected by the user (Fig. 3). However in the event of breakage of the communication line / cable, the other stand-by channel/line becomes active thus maintaining redundancy in communication (Fig. 4). (Article continues in next edition)



## Auma India at CII - Valves Conference 2010

Auma India was among the Gold sponsors for the Valves Conference cum Exhibition organised by Confederation of Indian Industry -Valves & Actuators Division on 6th Dec '10 at Taj Lands End, Mumbai. Auma India exhibited its actuator with new features along with Auma Group products.

Mr. Maurizio Brancaloni, Managing Director, Auma Italiana and President, CEIR- European Committee for the Valve Industry, made a presentation on the activities of CEIR and support provided by CEIR to European valve makers and market study of World valve industry . Mr. Balachandra MN, Vice-President, Marketing, Auma India, made a presentation on "Trends in Valve Automation", highlighting various automation options available with Auma.



## Customer Training Program

A 3-day training program was conducted on 21<sup>st</sup> to 23<sup>rd</sup> October 2010 by Auma India at Bangalore, which was attended by a number of customers and end-users. On customers request, Auma India also conducted onsite training programs at various sites namely, BHEL- Kakatiya, GVIL- Meghalaya, HPGCL- Hissar, IOCL-Panipat and NDPL-Delhi. The training program was tailored to suit customer specific requirements, which included theoretical and practical training sessions.



## Upcoming Customer Training Program

20<sup>th</sup> to 22<sup>nd</sup> January 2011

For more details

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Visit : [www.auma.co.in/service/customer training](http://www.auma.co.in/service/customer%20training)

Download the customer-training enrollment form and send it to us at [service@uma.co.in](mailto:service@uma.co.in).

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