



IP2-COM

Extend service life for RCM Systems

Service life

Johnson Controls Marine has for more than 20 years delivered computer based RCM systems to Reefer vessels.

Some of these systems have, due to accelerating development in the electronic and software industries either fully or partly passed their service life or have a limited time left.

In the past years we have replaced a number of these systems by completely replacing all processors, interfaces and input & output modules (I/O). A complete replacement is in some cases the best solution. However, we have also seen a market demand for less extensive solution that can extend the service life of the existing systems.

Meeting market demands

IP2-COM is a new processor that has been developed with service life extension as foundation. It interfaces with Sabroe RCM systems using Lanng & Stelman input & output modules for temperature measuring, output signals for controls etc.

The IP2-COM processor translates the Sabroe RCM communication protocol into today's leading industrial protocol standard, PROFIBUS.

Advantages

The IP2-COM processor enables PROFIBUS communication between the Lanng & Stelman input & output modules and a modern standard PLC system with new user interface. Therefore we are able to offer significant advantages compared to a complete retrofit.

- Less hardware is to be replaced
- Reduced installation time
- User interface by touch screen or SCADA
- Widely supported standard
- Flexibility



Flexibility

As we only replace what is needed, retrofitting with IP2-COM is a flexible and cost effective solution.

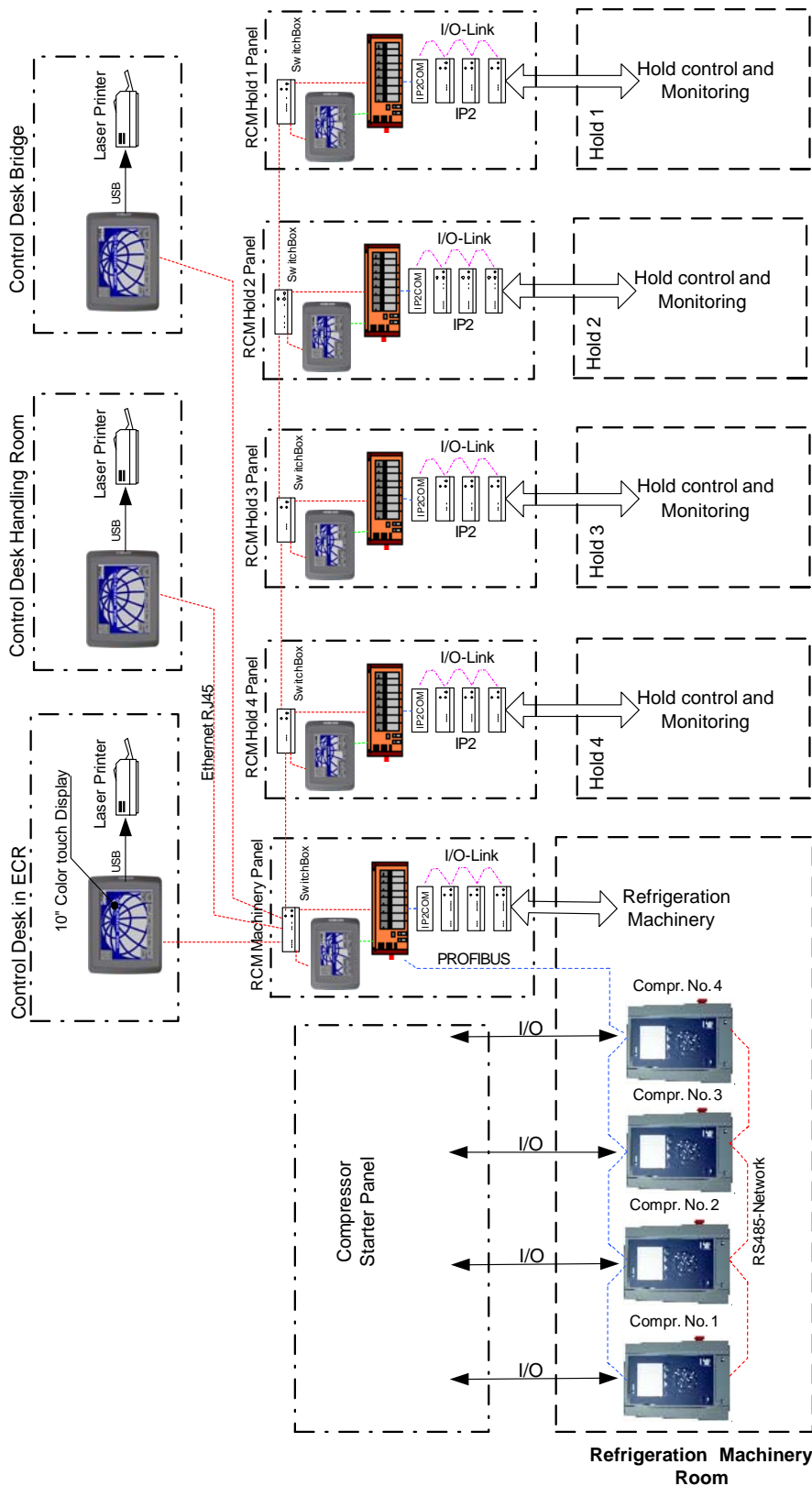
The Lanng & Stelman IP input & output modules are still repairable and will be so for years to come. However, should they or other hardware at some point require replacement, we simply replace a section step by step, using standard PLC equipment with PROFIBUS standard..

Prepared for the future

It is possible to retrofit with equivalent functionality or if required to more advanced solutions. Whichever solution is chosen, it is prepared for market demands when needed by add-on upgrades.

IP2-COM is prepared for a world of new demands and opportunities:

- ◆ Flexibility through add-on upgrades
- ◆ Integration to other onboard systems
- ◆ Remote access
 - live monitoring of the cargo temperature to your office
 - USDA reports by e-mail or download
- ◆ Operation optimization
- ◆ Energy optimization



Company:		Date: 21-01-2008	
Plant: RCM-IP2COM incl. UnisabIII for Cargo Refrigeration Plant		List File name: YORK Marine Dept.: JEF	
Net work configuration		Dwg. Rev.:	0.0
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