



A Rockwell Automation Company

Millar Western Forest Products Ltd. RSView Displays for Device Net

The Client:

Millar Western Forest Products Ltd. is an Alberta-based forestry company that produces and markets bleached chemi-thermomechanical pulp (BCTMP) and lumber. The Millar Western site in Whitecourt,

Alberta is home to both a pulp and paper mill and sawmill. In addition to lumber the sawmill produces roofing shakes.

The Requirement:

The outfeed and sorter sections of the sawmill contain a variety of photoeyes, motors, and valves. The outfeed and sorter sections control the sorting and packaging of lumber. The entire system of motors and photoeyes are connected to a DeviceNet network. Three DeviceNet scanners send and receive data to the devices and are connected to a PLC 5/40 and PLC 5/30. The current system contains no diagnostic data from the devices, and merely sends and receives on/off and start/stop bits.

Millar Western will be building a new sawmill on the Whitecourt site. The finished plant required a decision

as to whether DeviceNet should be used for the photoeyes and motors.

To make their decision the client needed to see all of the information available through the DeviceNet. This included all of the status and parameter information from the motors and status bits from the photoeyes. In addition to the DeviceNet data, Millar Western was also interested in pulling a great deal of information from the PLCs, scanners and other miscellaneous I/O throughout the mill.

The Design Solution:

Hinz designed a variety of HMI screens using RSView to graphically display the data for the electricians and maintenance personnel. The screens were split into three main sections. The first section contained the motors, photoeyes and valves. For the motors, an overall plant layout and MCC layout were used. Both screens showed motor status and linked to a pop-up screen, which displayed state, trending, fault and general motor information. The photoeyes were also shown on a plant layout and showed state and margin information.

The second section revolved around the 5/40E PLC. The screens in this section included processor status, DeviceNet Scanners status and I/O bits for the two racks. The PLC status screen contained a variety of processor information including date, time, scan times

and error codes. PLC errors could also be cleared from this screen. Similarly, the DeviceNet scanner screen displayed module and communication status as well as a scanner reset button.

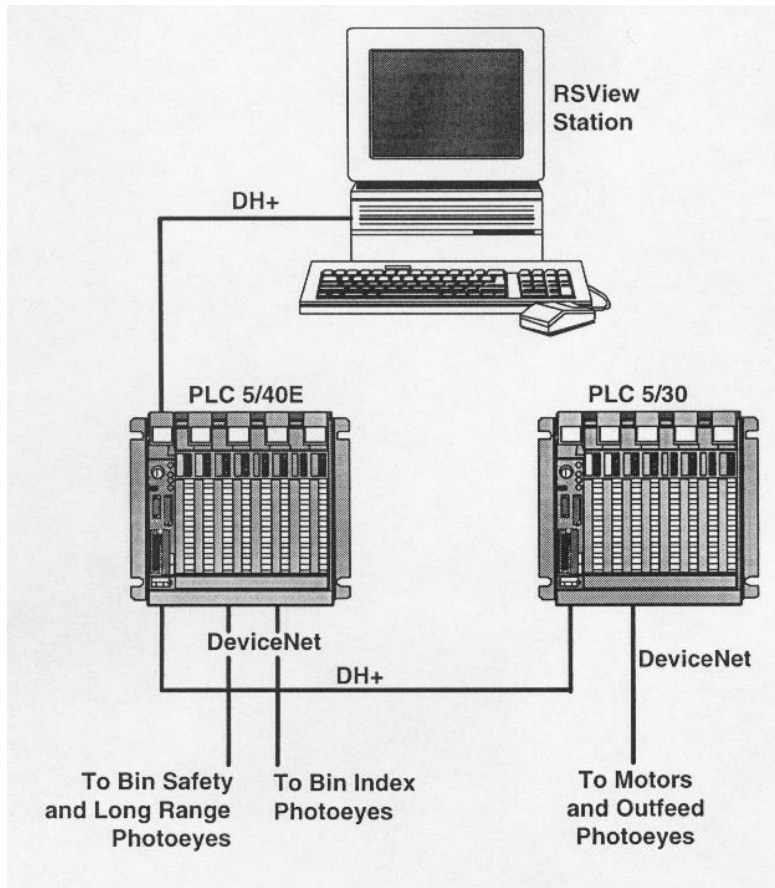
The third section contained information on the 5/30 PLC, with screens similar to those described in the 5/40 section above. An alarm summary page was also implemented to display information on motor, photoeye and PLC module errors.

The RSView was connected to the PLCs via DH+ through a KT card. The system was located in the electrical shop for ease of access.



A Rockwell Automation Company

Millar Western Forest Products Ltd. RSView Displays for Device Net



System Specifications:

- Rockwell Software RSView32
- Rockwell Software RSLinx Gateway
- PIII 400MHZ Computer
- Windows NT Operating System
- Allen-Bradley KT PC Interface Card

For further information or to contact a Hinz office near you, please check our website at:

www.hinz.com