

APPLICATION STORY OF AN MPL PRODUCT

KARM Autotrawl-system - KARMTRAWL

Karmøy Winch AS, Norway.

Manufacturer of high-pressure deck-machinery (winches, cranes, pumps etc) for fishing-vessels, tug-boats, anchor-handling vessels, etc.

Application

The KARM Autotrawl system (KARMTRAWL) is designed to monitor and control the hydraulic system on a fishing-vessel. The system automatically starts and stops pumps, set valves in correct positions, controls the tension in the wires, and monitors oil levels and temperatures.

The KARMTRAWL system can set the fishing net to a preset length, adjust the trawl to make sure that the opening of the net is kept at a maximum.

After the trawl-phase the KARMTRAWL-system can automatically start the necessary pumps, and heave the trawl-net up to the boat.

During all these operations the wire-lengths, hydraulic pressures, temperatures, tension in the wires, alarms and system statuses are presented on a monitor on the bridge.

Reasons for using MPL products

We used to have a PC integrated in a monitor to control the KARMTRAWL-system. Whenever a service was needed for the PC, the user had to send the monitor and PC to our workshop.

If the monitor broke down at sea, the user had no possibility to read the status of the system.

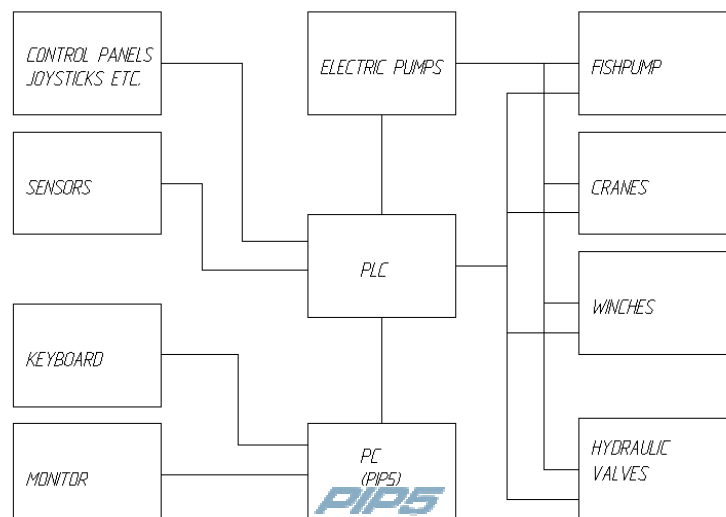
To day we use the PIP5-computer and a separate monitor. If the computer should stop working, it is possible to connect a lap-top to the system, and we can send a replacement PC to be ready when the vessel comes in to shore. The replacement can be done in a few minutes by the crew.

If the monitor breaks down, it can be temporarily replaced with a standard monitor.

The service advantages, size, robust housing and the service and support provided by Bytec Nordic AS, was the main reasons that we chose the PIP5-computer.



Block diagram of System



MPL products used

- PIP5-3
- DRAM-32
- IDEFLASH-32, 2.5"