



TANK TEMPERATURE MONITORING

Today, the majority of fishing vessels are equipped with systems to monitor the temperature in each of their tanks or holds. Basic PT100 sensors with 3 or 4 wires demand frequent recalibration ; the resulting temperature measurements may be unreliable and inaccurate.

Temperature is the basic and essential criterion for monitoring food preservation and freezing. The preservation of fish and crustaceans relies on correct refrigeration; good preservation means commercial optimisation and improved profitability.

Whatever the business line or the chosen refrigeration or freezing method, reliable, high quality temperature measurements are essential to reach fish conservation.

The TTM solution developed by Olen was made by selecting analogue PT100 class A temperature probes, factory calibrated in 2 to 3 points, adapted to the type of refrigeration and equipped or not with a 4/20 mA converter. It guarantees a reliable transmission of information regardless of the electromagnetic disturbances that may occur on board the vessels.



The securely collected temperature data is aggregated by the transmitter of the electrical cabinet, then processed and stored in a database by a server. The data is returned to the operators via a local HMI TTM web service. If the Onshore Monitoring service has been selected, all data will be exported in near real time to the shipowner for detailed monitoring by fleet managers or quality managers.

The HMI TTM is a local and easy to use WEB service that can be combined with the *Yes we catch* that associates temperature data with catch tonnage.

Characteristics:



Temperature sensor Pt100 class A:

- Measuring range -65°C ... 50°C
- Accuracy according to IEC (60751): $\pm 0.2^{\circ}\text{C}$
- Resolution: 0.1°C
- Electrical connection M12 IP69
- Analogue 3 or 4 wires with or without 4/20mA converter
- Material: stainless steel 316L
- Diameter 6 mm
- Protective glove
- Adjustable length
- DNV

Industrial box

- Power supply: 230 VAC or 24 VDC
- 64 temperature inputs
- Ethernet communication

Computer server:

- Power supply: 230VAC
- Server: dual-core, 8 GB, HDD > 500 GB

Wyse thin client PC:

- 24" LED screen
- Power supply: 230VAC

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