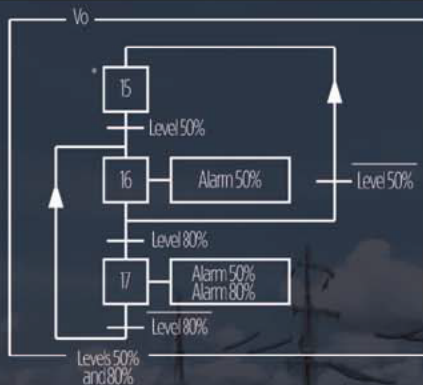
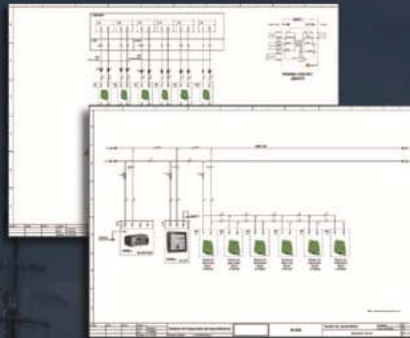


Manufacturing process

Processes under Standard IEC-60848



Design and elaboration of standardized electric blue-prints, under Standard IEC-60947



Implementation of the design



Installation, Setting to Work and commissioning of the system



3D modeling



MTL-31S Monitoring Liquids Levels in Tanks System

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MTL-31S

Monitoring Liquids Levels in Tanks System

Monitoring Liquids Levels in Tanks System

State of the Art technology that allows the automatic monitoring of level and volume of fluids in the tanks.

Allows to pump the fluid efficiently to maintain vessel stability and to detect critical levels in tanks.

Continuous monitoring 24/7 of the level and volume contained in the tanks, for any type of liquid (Fuel, fresh water, sewage, etc.).

Characteristics



Configurable

Adapted to the need of any application: Quantity in tanks, critical levels to be supervised.



Modular

It allows to select the type of variable to monitor (analog, digital, bus), adapting to the sensors and / or transmitters installed in the tanks.



Self-managed

Integrated with BIST (Built-in Self Test) verification.



Scalable (Upgradable)

allowing new tanks to be integrated in the future, if necessary.

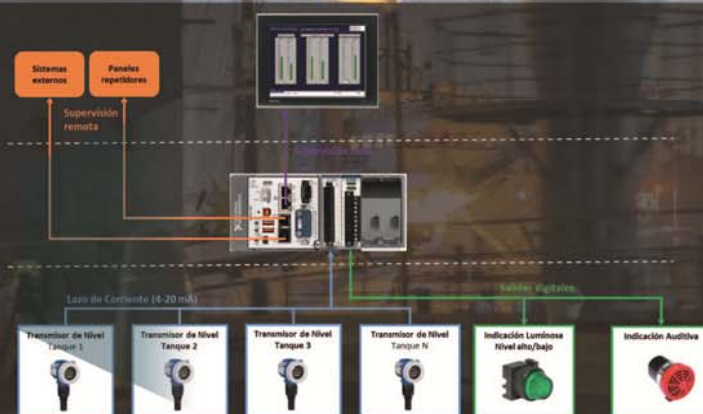
Technical Specifications

Supply Voltage	100V-240V AC @ 60Hz / 90V-300V DC
Power Consumption	between 120W and 960W maximum *
Operating Temperature	-20°C to 55°C
Storage Temperature	-40°C to 85°C
Encapsulation of equipment	Housing made of polycarbonate, cast aluminum or sheet steel *
Protection level	IP-65
Monitoring and control equipment	Real-time controller and logic gates array reprogrammable Built-in FPGA (Field Programmable Gate Array)
Human-Machine-Interface	Touch screen between 12" & 19" *
Connectivity	Communication via serial port (RS-422 / RS-485) with built-in NMEA-0183 protocol, or via network port (Ethernet)
External connection	Robust connectors with threaded closure for safety or cable glands
Others	Light and audible indicators as required

*optional depending on requirement or selection.

System Architecture

The architecture implemented to develop the System is based on a controller, as the main monitoring and computing element, signal acquisition modules and a display for data visualization.



Human-Machine Interface (HMI)

Human-Machine Interface (HMI) allow to display the liquid volume, both graphically and numerically.

It provides a display of alarm histories, presenting a record of the latest events (events or faults) occurring in the system, both at the process level and at the level of monitoring and control equipment.

The number of tanks shown per deployment can be up to 16, with a unlimited number of deployments.

Supervision screen



Fault Logs Screen

Main Screen



Access screen (Security)