ADLINK
LEADING EDGE COMPUTING



USE CASE

PanKonix PKX Series HMI

All-in-One HMI for Seamless PLC Interoperability

Visualize Data for Oil & Gas and Water Industries

Real-time data visualization with PLC connectivity is pivotal in monitoring systems, with HMI (Human-Machine Interface) as the linchpin. This is particularly crucial in the Oil & Gas and Water industries, spanning natural gas, gasoline, and water treatment. As equipment diversity and system complexity continue to surge, HMI's connectivity, scalability, and user-friendliness are paramount for improving efficiency and sustainability.



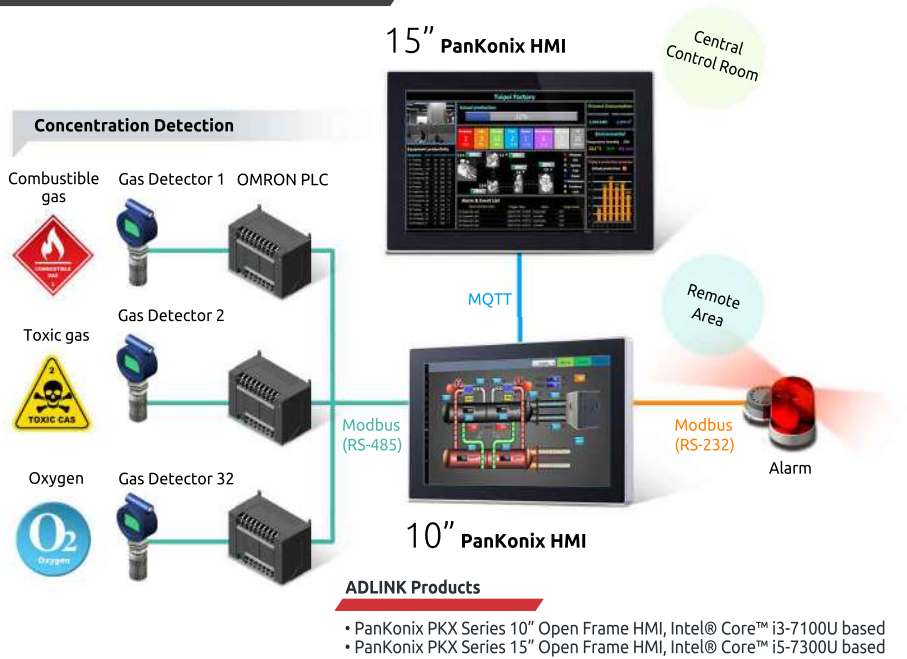
Gas Leakage Monitoring Facilitates Liquefied Natural Gas (LNG) Safety



Oil & Gas

Overview

Natural gas is increasingly replacing coal and nuclear power in global electricity generation. To maintain gas quality, detect leaks, and mitigate risks during refining, real-time PLC-HMI based monitoring systems are vital for safety in liquefied natural gas refineries.



ADLINK Products

- PanKonix PKX Series 10" Open Frame HMI, Intel® Core™ i3-7100U based
- PanKonix PKX Series 15" Open Frame HMI, Intel® Core™ i5-7300U based

Challenges/Requirements

- Modbus RTU for long-range data transmission and Modbus TCP for short-range PLC signal transmission
- Gas sensor data collection & visualization with system warning function
- 10" HMI for remote area and 15" HMI for control room
- User-friendly HMI with IoT protocol supported for cloud application
- Lower cost and shorter lead time

User Benefits/Why ADLINK

- Supports Modbus RTU/TCP for PLC and I/O data and signal transmission
- Data acquisition for log and archive activities of sensors with customizable alarm alerts
- 21.5"/15"/10.1" HMI with high-resolution, PCAP 10-point multi-touch
- Easy-to-use HMI software with vector graphic widget library speeds up development with MQTT/RESTful API/OPC UA
- Cost-effective with shorter lead time than competitors



Oil & Gas

Flame Detection Reduces Liquefied Natural Gas (LNG) Explosion Risks

Overview

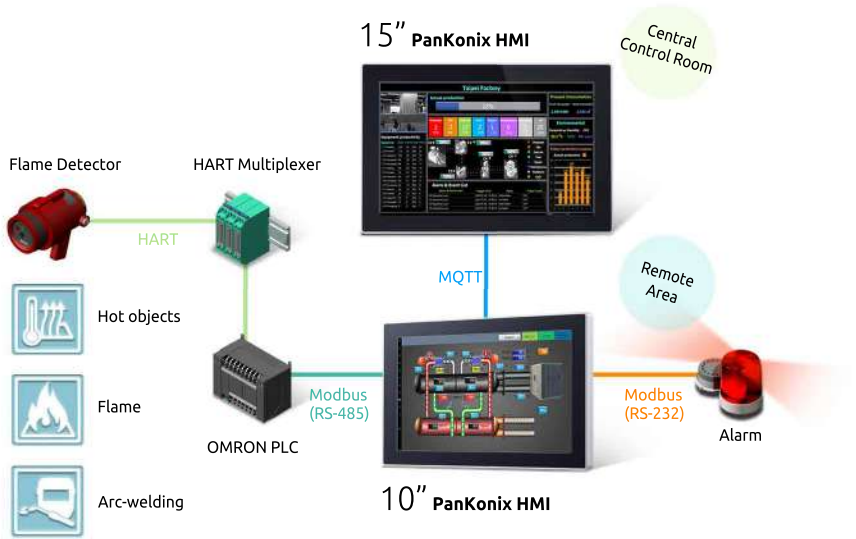
In natural gas refining, managing explosion risks is crucial. Immediate detection and alerts for combustible materials are essential for safety. Identifying non-flame signals is also important for accident prevention, as real-time flame data visualization and alerts facilitate rapid incident response.

Challenges/Requirements

- HMI supports Modbus RTU for long-range data transmission
- Flame detector data collection & visualization with system warning
- 10” HMI for remote area and 15” HMI for control room
- User-friendly HMI with IoT protocol supported for cloud application
- Lower cost and shorter lead time

User Benefits/Why ADLINK

- Supports Modbus RTU/TCP for PLC and I/O data and signal transmission
- Data acquisition for log and archive activities of sensors with customizable alarm alerts
- 21.5”/15”/10.1” HMI with high-resolution, PCAP 10-point multi-touch
- Easy-to-use HMI software with vector graphic widget library speeds up development with MQTT/RESTful API/OPC UA
- Cost-effective with shorter lead time than competitors



ADLINK Products

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- PanKonix PKX Series 15” Open Frame HMI, Intel® Core™ i5-7300U based

Water Quality Data Visualization Enhances Monitoring Efficiency



Overview

Water quality monitoring and process control are vital for the water supply and wastewater treatment industries, involving tracking chemical parameters with real-time data and alerts for anomalies, as well as pump monitoring and water level control. A user-friendly monitoring system helps ensure a stable water supply.



Challenges/Requirements

- High-resolution 21" HMI for clear data visualization in control room
- Supports Modbus RTU for data collection from sensors, pumps, and valves, as well as for controlling pumps and valves
- Integrated water quality monitoring and processing control information with system warning function
- User-friendly HMI software for easy application development
- Lower cost and shorter lead time

User Benefits/Why ADLINK

- 21" large-sized HMI with high-resolution, PCAP 10-point multi-touch
- Supports Modbus RTU/TCP for PLC and I/O data and signal transmission, enabling control capability of equipment
- Data acquisition for log and archive activities of sensors with customizable alarm alerts
- Easy-to-use HMI software with vector graphic widget library speeds up development
- Cost-effective with shorter lead time than competitors

ADLINK Products

- PanKonix PKX Series 21" Open Frame HMI, Intel® Core™ i5-7300U based

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PanKonix PKX Series HMI

All-in-One HMI for Seamless PLC Interoperability



10.1” 15” 21.5”

- 21.5”/15”/10.1” 16:9 LCD panel with LED backlight
- Up to 1920 x 1080 high resolution, PCAP 10-point multi-touch
- Intel® Core™ i3-7100U/i5-7300U
- Easy-to-use HMI software with vector graphic widget
- Supports Modbus, CANopen for various PLC communication
- Supports OPCUA, MQTT, and RESTful API for IoT applications
- Data logger service and customizable alerts and notifications
- IP 65 rating for water and dust protection
- Robust panel direct from AUO® Display Plus

True Flat
PKX-STC2-KL Series

Open Frame
PKX-SP2-KL Series

Scan QR code to get quote

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