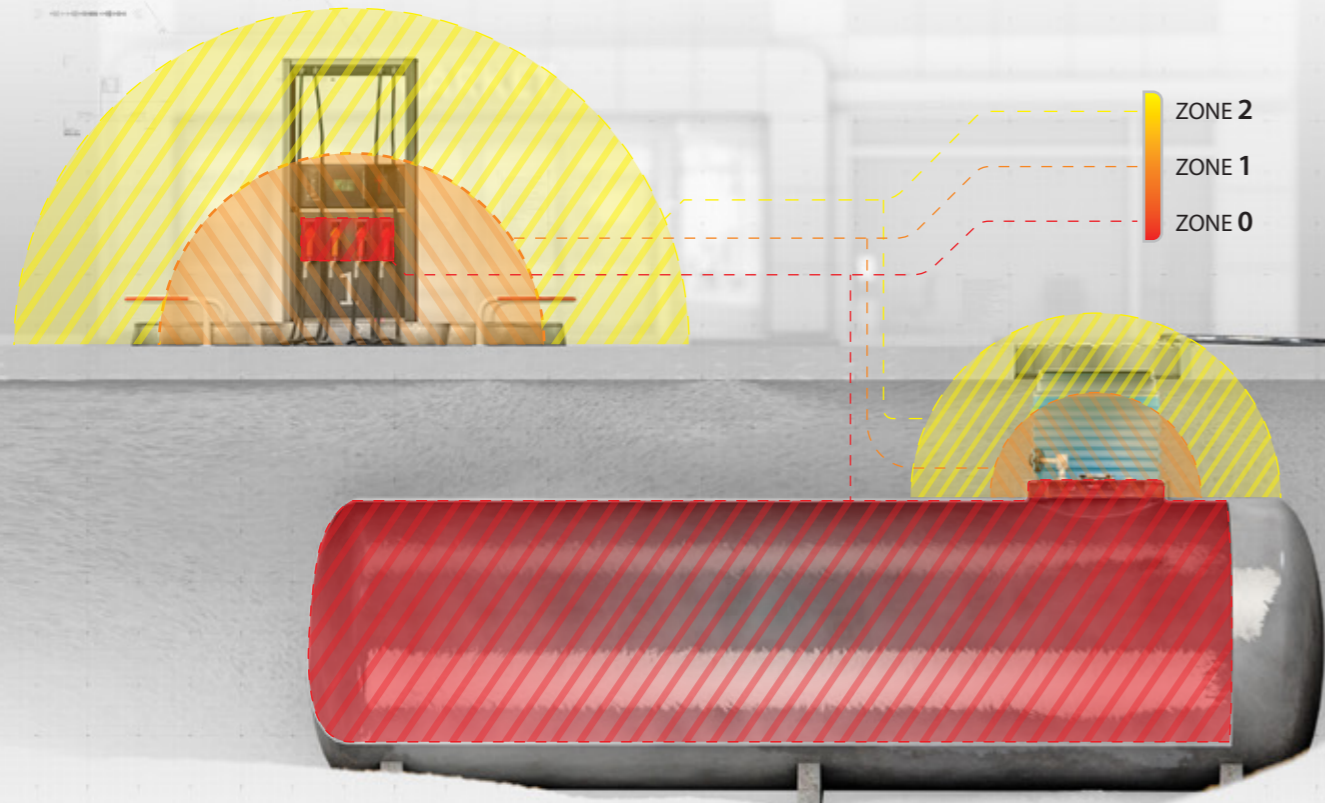


Technical Specifications

- Windows-based automation software
- The software is not a desktop application, but a Windows service application
- Software uses MS SQL database
- In wired systems, RS232/RS485/Current Loop communication infrastructure
- In wireless systems, 433Mhz/868MHz wireless communication infrastructure
- No limitation in the number of fuel pumps that can be connected to the system, maximum 44 filling points can be monitored on the customer displays
- Availability of integration with Tokheim, Gilbarco, Wayne, Mekser, Mepsan, CSA, Baransay, Midco, Provalco, S&B, Petposan, Yenen, Yakut, Mites, Europump, Benett, Eletrogas CNG, Compaq CNG, IPT Counter, Isoil Vega Counter
- Capability to integrate with third-party software
- Automatic data backup
- Automatic central update
- Server/client application on TCP/IP

Security and Safety

All system components are designed and certificated according to international safety regulations.



PINEAL

KE02/0516/R01



Pump Automation System

The system manages the pumps in the filling station automation system. Allows full control over pump sales, unit price management, shift application and customer management.



Pump Automation System

The Asis Fuel Pump Automation System equipped with innovative, modern and state-of-the-art technologies offers automation solutions meeting the current requirements. This innovative system having wired and wireless options provides full control over fuel sales from dispensers, price management, shift applications and management of attendants and customers. The system differentiates from other fuel pump automation systems with its suitability for use with many types of fuel pumps, ability to control itself, capability to compile reports in a number of formats and flexibility.

Wired : Ideal for filling stations with suitable infrastructure for cabling.

Wireless : Ideal for filling stations with unsuitable infrastructure for cabling.

System Architecture



Basic Features of the System

Online Pump Monitoring: Amount of the fuel supplied is indicated in liters and monetary value simultaneously on the customer screen at the supermarket during a sales transaction.

Pump Integration: Integration is possible with many known pumps. If the communication protocol and simulator for the pumps that cannot be integrated can be provided, such pump systems can also be integrated within one week.

Totalizer Reading: Totalized data on each pump and dispenser are transferred to the system after each sales transaction. Any differences between the sold amount and the totalizer value are identified and reported by the system.

Unit Price Changing/Programming: Unit prices can be changed right on the system, without a requirement to change the unit price on each dispenser. New unit prices entered are automatically registered on each pump and unit price changes can be reported on user basis.

Self-service Application: Using a card or vehicle ID unit predefined on the system or after advance payment at the supermarket, the respective pump is turned on by the automation system, allowing customers to fill their fuel tanks themselves.

Shift Management: Once the shift program and shift changes are defined in the system, shift changes can be achieved by pushing a single button. All sales transactions, pump attendant details and fuel type data are transferred to a special shift account for reporting.

Automatic Calibration: It operates in integration with the tank automation system. In systems equipped with tank automation, it matches the pump sales with tank inventories for automatic of the tanks.

UPS Integration: In case of connection of a UPS conforming to the system, it reports the status of the UPS; and in case of a UPS problem or problem with batteries, the smart system is shut down in safe mode automatically.

Alarm Management: Any unwanted situation in the pump automation software, peripheral hardware and in the operation of the system are detected and alarms are generated accordingly.

Current Account Management: Limitations, discounts, etc. can be applied to any pre-defined current accounts and all current sales transactions are managed and reported by the system in a different status.

Customer Display: Customers have the opportunity to monitor the amount of fuel they purchased on a display to be connected to the system and on a screen specifically designed for such display, while making the payment in the supermarket within the filling station.

Reporting: Allows creation of a variety of filterable reports for sales transactions, pumps, pump attendants, products, etc. and they can be converted into a number of file formats.

Central Connection: The system is fully compatible with the Asis Central Management System (Petech Online). All sales from pumps are transmitted to the center online. Sales models requiring central authorization are utilized and all daily opening and closing data are collected and transmitted to the center during night times.

System Options

- Customer Identification System
- Vehicle Identification System

