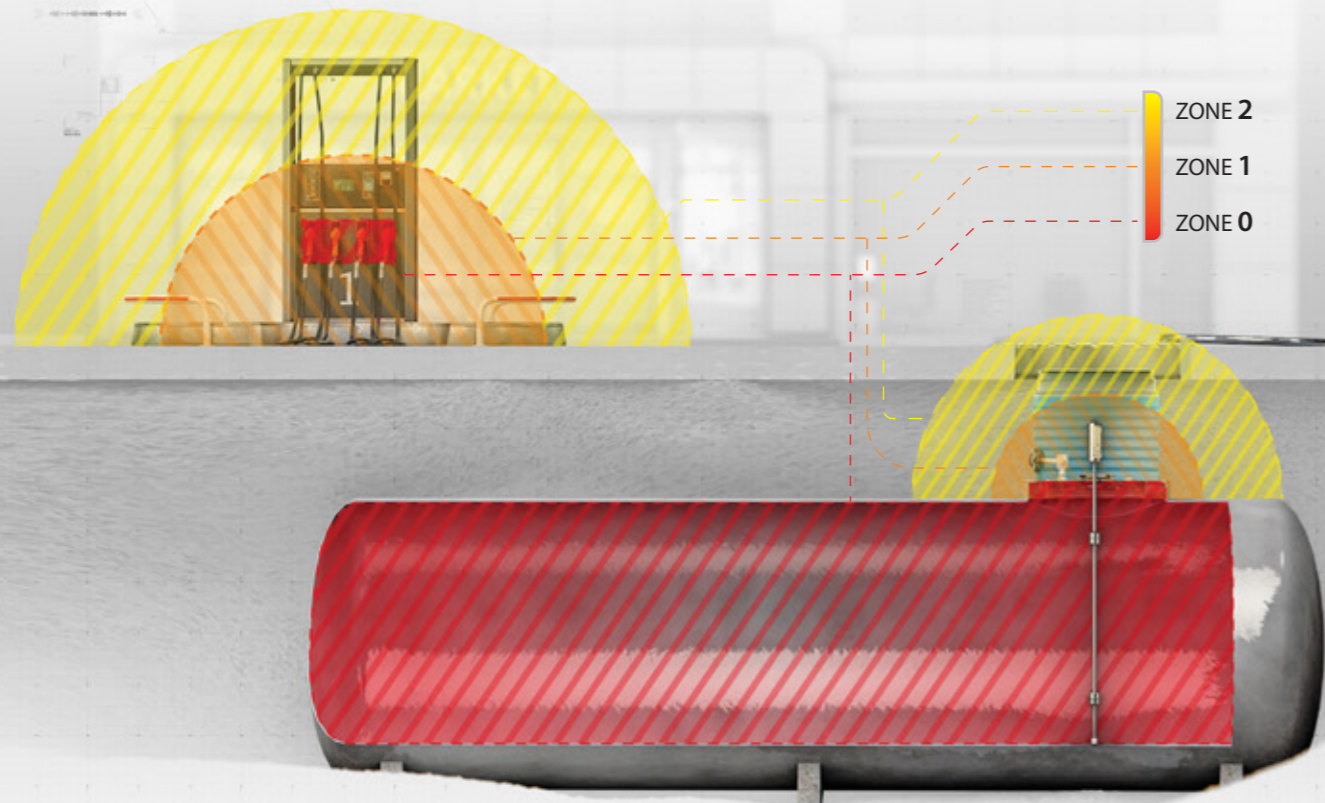# Technical Specifications

- 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 communication infrastructure
- In wireless systems, 433MHz/868Mhz wireless communication infrastructure
- Galvanic insulated barrier protection
- With the ProbeX IS barrier module, capability for connection of 6 tanks and no limitation in the number of tanks that can be connected to the system
- Capability to integrate with OPW, Veeder Root, Incon, Fafnir, Hectronics brands of level sensors and system consoles
- Capability to integrate with third-party software
- Automatic data backup
- Automatic central update
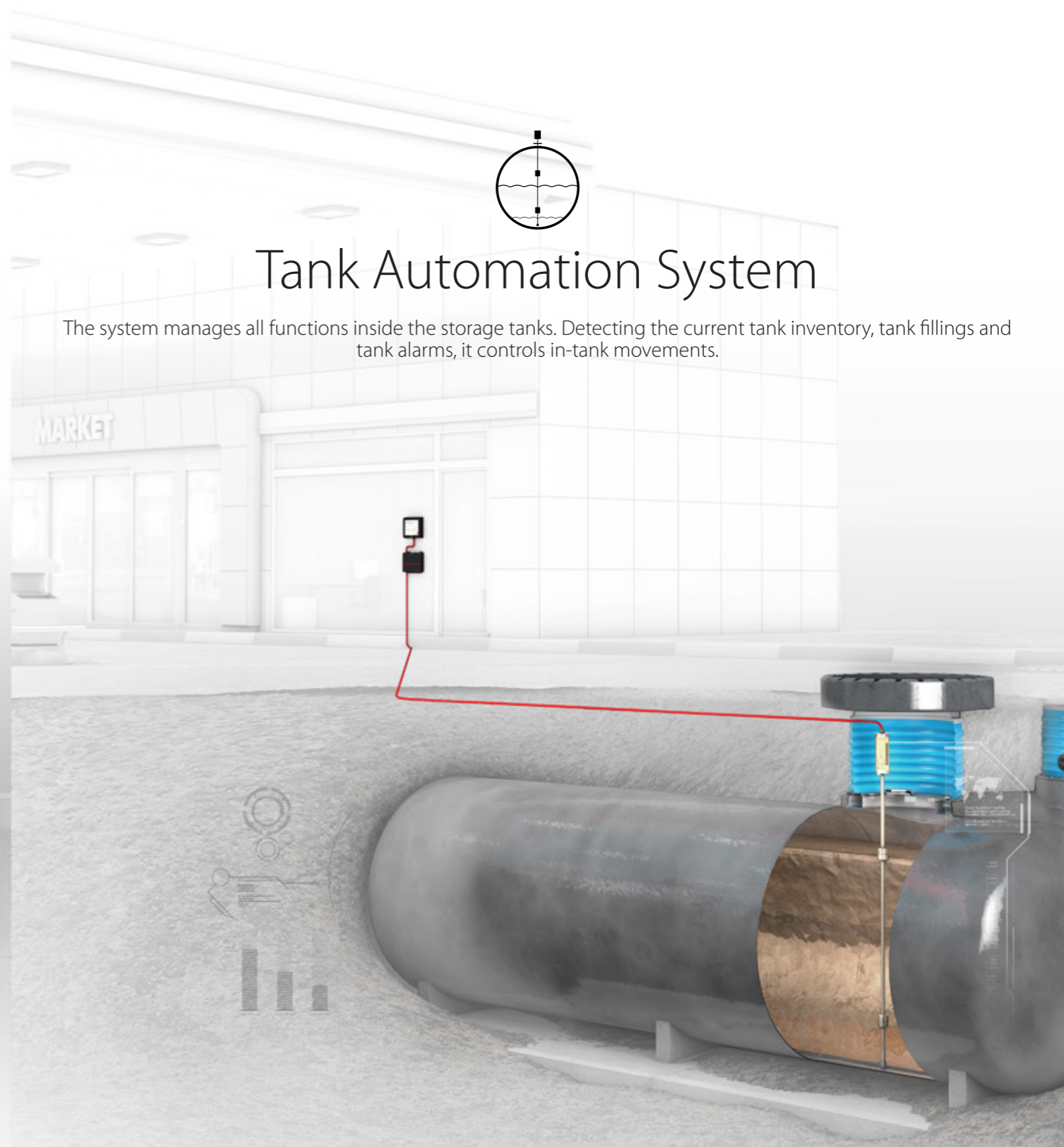- Server/client application on TCP/IP

Security and Safety

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

ATEX

ZONE **2**
ZONE **1**
ZONE **0**

PINEAL

KE03/0516/R01

Tank Automation System

The system manages all functions inside the storage tanks. Detecting the current tank inventory, tank fillings and tank alarms, it controls in-tank movements.

www.asis.com.tr
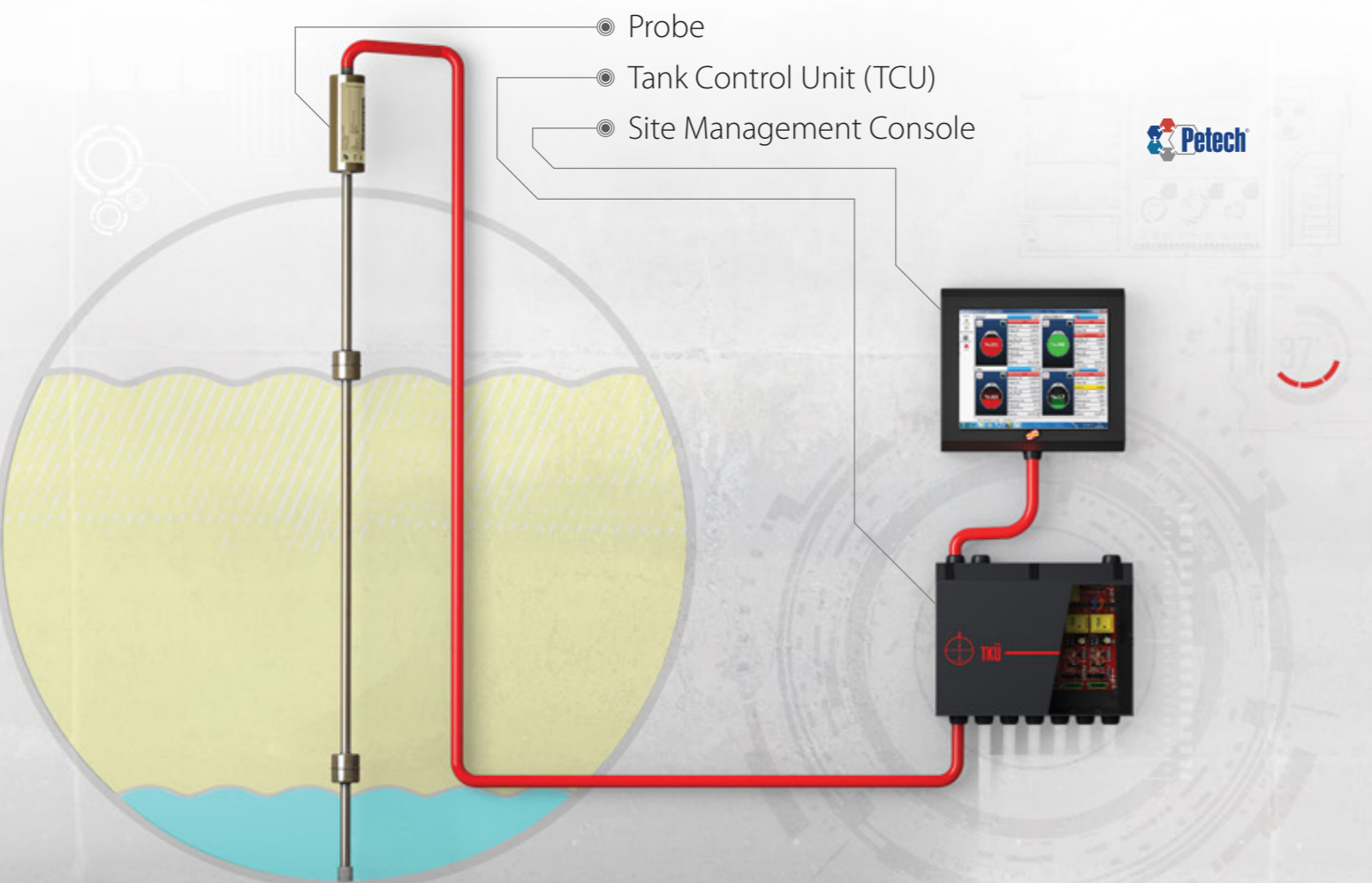
www.asis.com.tr

ATEX

Petech

Tank Automation System

Asis Tank 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 all operations inside the fuel storage tanks (current tank inventory, fillings and alarms generated for tanks). The system differentiates from other tank automation systems with its capability to manage different types of tank models, controlled filling, automatic calibration, 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

⦿ Probe
⦿ Tank Control Unit (TCU)
⦿ Site Management Console

Petech

Basic Features of the System

Amount of the Simultaneous Inventory Management: Volume and height data of the fuel and water inside the tanks, the capacity of the tank, empty volume of the tank, as well as the temperature of the fuel inside the tank can be displayed on the screen and reports can be generated.

Fill Detection: Detects tank fillings automatically, displays the tank inventory data before and after each filling. Owing to integration with the pump automation system, generates accurate filling reports by also including the sales transactions made during filling operations.

Controlled Filling: It is possible to enter the amount to be filled, as well as the waybill/invoice number, prior to the filling operation; and following completion of the filling operation, by clicking on the completion button, the formal document data are also recorded in addition to the filling values.

Tank Alarms: The system automatically detects and records any unwanted situations such as excessive filling, high water level, low fuel level, high temperature, etc. and displays them as additional information on the inventory screen.

Graphical Reports: Reporting of tank content amounts on a graphic on tank or product basis. The graphical curves provide the opportunity to visually interpret any changes within tanks, such as changes in volume and level, etc.

Recorded Reports: Tank inventories are recorded and reported at predefined times. Thus, it provides information about the past of the in-tank movements.

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

Management of Different Tank Models: The inventory management of not only the cylindrical tanks, but also other types of tanks can be handled using theoretical charts.

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 at the midnight.

System Options

• Tank Switch Controller - TSC
• Tank Relay Unit - TRU

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