



AUTOMATION SOLUTIONS BY MEPSAN

REFUELING STATIONS;

- PUMP AUTOMATION
- CUSTOMER IDENTIFICATION SYSTEM
- VEHICLE IDENTIFICATION SYSTEM
- TANK AUTOMATION
- TRUCK AUTOMATION
- CENTRAL NETWORK MANAGEMENT
- BACK OFFICE SYSTEM

TANK FARMS;

- TRUCK LOADING / UNLOADING SYSTEMS
- RADAR TANK AUTOMATION
- ADDITIVE INJECTION SYSTEMS

MEPSAN's Automation Approach to Fuel Storage, Supply Management and Station Management:

Different from ordinary systems, MEPSAN's Automation Solutions are designed and manufactured in parallel with the modern technological developments and rapid-evolving market dynamics.

OPERATION- PERFORMANCE - COST

END TO THE procedure problems in station points per database management, software version updates, data transfer control, virus updates, network security management, backup and data loss prevention.

- All information that occurs in the station, to be taken to the head office.
- All the Analysis to be done in the head office.
- Remote Access to Data from any location.

Innovative Mepsan Products that could be controlled via Web

Web Access and Remote Control over Real-time Forecourt Data:

Forecourt Data can be accessible from any location by online users who have different authorisation levels set by Hierarchical Encryption Method. As a consequence of real time access, the managers are enabled to have Remote and Mobile Management which enhance efficiency in their business

USC - UNIMEP Station Controller;

USC, an industrial control unit, is designed and developed in order to be operational under severe environmental conditions. It keeps on storing the forecourt data even under PC failures, and eliminates the need for analog consoles by digitally communicating with Smart Tank Probes. USC is the key element of the system that provides durability and stability.

Cost Advantage and Flexibility;

The overall system cost is diminished by the elimination of extra equipments on the forecourt. Less the number of the equipments on site, less the service and maintenance costs. Moreover, Remote Software Updates contribute to savings. Therefore, the overall system cost for installation and post-installation is significantly decreased.

MEPSAN utilizes its own softwares which are self-developed in its R&D department. Thereby, MEPSAN is not stucked to the other R&D studies and software products developed by third parties. This opportunity enables us to provide cost advantage and rapid-responding solutions to our clients. Additionally, it lets Flexibility in development and in updating of the softwares according to the changing sectoral needs.

FUNCTIONS OF THE SYSTEM

Web-access via user name and password; maximum security control, authentic password renewal, entrance check at IP code level, user access self-recording, hierarchical encryption



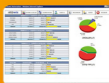
Market screen; attendants or VIS/CIS details, vehicle license number, fuel type and unit price, pump and nozzle code, the last-10-sales information, total volume and total sales, changing animations according to interface status.



Online tank monitoring, stock level, inner temperature, tank volume and real tank volume at 15°C, stock and filling reports per time intervals, high - accurate automatic online calibration.



Online reports in terms of station, detailed shift and sales reports, general product reports, client bonus reports, etc.



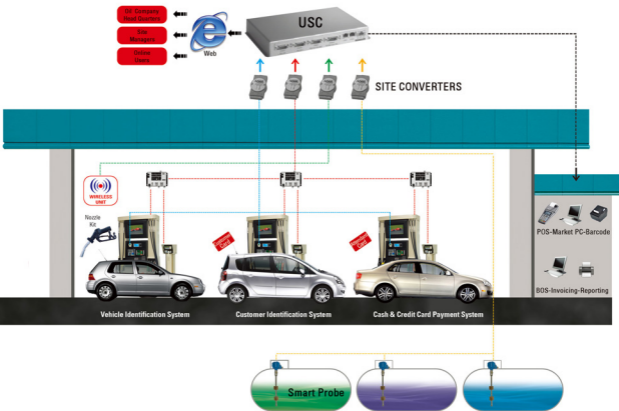
Graphical Reports; the sales done according to the product, pump, sales number, time, day, and month are reported graphically.



Online
Network
Management...



STATION AUTOMATION SYSTEM



*For more technical information you could visit www.mepsan.com.tr

Mepsan has the right to change all the technical features without giving any notice.

DO YOU KNOW?

Automation & Fuel Management;

- Measuring and controlling the level, temperature, density and pressure values related to the fuel amounts.
- Feeding the station network by the integration with automatic fill-up orders.
- The equipments, which can measure and control the larger amounts accurately, are installed by MEPSAN to manage the fuel most efficiently.



Radar Tank Probes : With easy installation, radar measurement devices do not contact the product directly. Based on the radar principle, product and water levels are measured. Furthermore, Radar Probes provide comprehensive measurement and alarm system together with pressure probes and temperature probes.



Massflow Meter : Measures mass and density instead of volume, at ± 0.2 accuracy. It is unaffected by temperature, flow, density and line pressure during the operation, and saves costs since it does not require calibration and maintenance.

Preset Controller : Provides a secure delivery to the trucks by checking the validity of automatic fill-up order and the system grounding. After it approves the order, the permissive control system starts up the delivery.

**Tanker Automation;**

- Tracing Location
- Online/Offline Sale Reports
- Record of total sales
- Fill-up orders
- Vehicle identification systems
- Sales to local or credit customers
- Preset Sales
- Electronic Totals
- Automatic sales receipt
- Terminal-integrated stock monitoring