

The Growco RetailStar Retail Automation Systems are designed for the automation applications used in petrol stations and related facilities. It is designed in modular concepts which are easy to upgrade and customize according to the needs of each site. It is user friendly to operate with useful tools and facilities to fulfill the requirements of each site or head office application. Below are the brief explanations of our automation systems.

➤ **RetailStar Solution Architecture**



Figure 1: The Solution Architecture of our Automation System

➤ **Application Architecture**

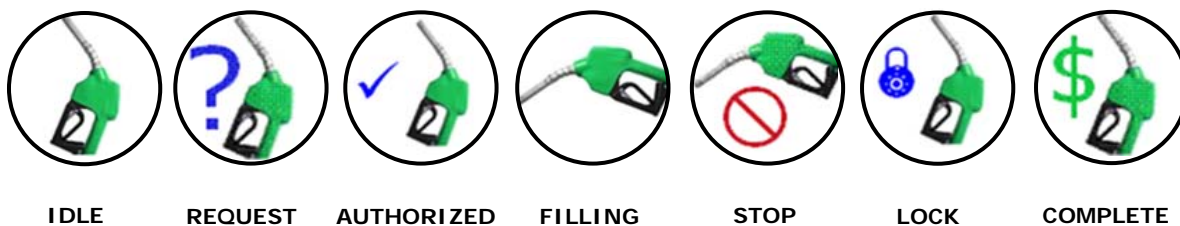
BUSINESS MODULES	TOOLS & UTILITIES
▪ Pump Control & Fuel Sales	▪ User & Group Control
▪ ATG & Wet Stock Management	▪ System Configuration Utility
▪ C-Store Management	▪ Automatic Backup Utility
▪ Prepaid Card Management	▪ Automatic Database Clean-Up
▪ Head Office	▪ Automatic Data Transfer Utility
▪ Reports	▪ Automatic Card Data



Figure 2: Typical Screenshot of the Main POS As Shown Above.

➤ **Forecourt Pump Controller**

- Able to connect up to 16 filling positions as standard (or contact us for options)
- Able to connect up to 4 different brands of pump in one site
- Able to monitor all pump activities
- Able to stop one or all pumps
- Able to log abnormal events of the pump such as pump meter reset
- Integrated price change
- Other useful features



➤ **Wet Stock Management**

- RetailStar is capable to process delivery for 1 D/O into multiple tanks.
- Able to manage to continue the sales during the delivery with minimal interruption.
- Able to collect the sales done during the delivery and reconcile with the delivery report.
- Able to generate tank reconciliation report per shift/day.
- Able to generate Fuel Stock reconciliation per date range and able to show the losses in operation per tank and losses per delivery.

➤ **C-Store Management**

Basic C-Store management will take care of the lubricants and other c-store items.

- Able to keep unlimited PLU
- Able to keep unlimited 1 level of department
- Able to keep the quantity
- Able to do mix sales (C-Store and Fuel transaction)
- Able to generate shift/day reports

➤ **Prepaid Card**

- Card Management
  - Account Registration
  - Card Registration
  - Card Transaction Report
  - Account Transaction Report
  - Able to print fleet report
- Operation
  - Cashless Transaction
  - Top-Up at Cashier or at Wireless Payment Terminal
  - Wireless Payment Terminal (Outdoor or Indoor)
- Security
  - Contact-less smartcard with double data encryption.
  - Dual storage of data (in the card, and in database)

➤ **Reports**

- POS Operation Reports
  - Fuel Sales
  - C-Store
  - Tank Reconciliation
  - Fuel Delivery
  - Mode Of Payment
  - Payment Reconciliation
  - Daily Summary
- Management Reports
  - Summary
  - Fuel Sales & Delivery Trend
  - Fuel Stock Analysis
  - Prepaid Card & Account
- System Reports
  - Pump Log
  - User Log

### ➤ **Head-Office Reports**

Basic Head-Office application is a simplified application that automatically downloads the data from the site and prepare the reports. All reports can be saved in excel and PDF format.

It can generate the following reports:

- Fuel Sales
- Tank reconciliation
- Fuel Delivery
- Fuel Stock Analysis
- Gross profit & Loss
- Delivery Trend
- Prepaid card reports
- Sales Transaction Report per card
- Sales Transaction Report per account
- Top-up Report per card
- Top-up Report per account

### ➤ **Forecourt Dispensing Pumps**

Our RetailStar Retail Automation Systems can work properly with the following well-known manufacturers / brands of forecourt dispensing pumps:

- Growco
- Gilbarco
- Sanki
- Dresser-Wayne
- Tatsuno
- Tokheim
- Tokico
- Bennett
- Dong-Hwa Prime
- Nuovo Pignone
- Censtar
- HengShan
- Contact us for other brands not listed above

**Notes :** All the above brands belong to their respective owners and their designs may change at their own discretions without any prior notice.

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**TOTAL MEASUREMENT SOLUTIONS PROVIDER**

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