

# THE ELECTRONIC FILLING MACHINE



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## FEATURES

The electronic filling machine is equipped with abundant functions and various external interfaces, designed corresponding to needs of industry fields, solidly made and nice to look. It is programmed for users to operate easily, embedded display messages for convenience of users. Before using our product, please read this guide with appreciation, and make the best use of all of the functions that this product has.

### Functions;

- The indicator panel has been specially developed for LP gas filling into the cylinders.
- Can manage amount, accumulate data.
- Digital parts indicate the correct quantity of filled gas.
- Weight back-up (Even though the electricity supply fails, the previous weight remains).
- It controls the gas flow and cuts of filling automatically as soon as it gets signal from the PLC system.
- System fully electronic and using Siemens brand PLC.
- Shows number of filled cylinders on the screen. The number of cylinderes can be reseted at any time.
- Shows filling operation on screen.
- Has internal back up memory that keeps data up to two years time.
- Records filling weight, tare weight and amount of gas filled into the USB flash memory stick installed optionally on the USB connection on the indicator panel.
- Optional filling according to the principle “buy gas at what you pay for” is embedded into the PLC system. It is possible to sell gas like petrol sales to vehicles. The customer pays a certain amount of money and buys gas at that amount. Supposing that a 12,5 kg cylinders sales price is 3.000 Naira and a customer wants to pay 1.300 Naira and buy gas which costs this amount. This is possible with our electronic filling machine and this option can be activated through embedded functions in the PLC system. This option is password protected and can be activated only by the authorized people.
- Self calibration is available. The filling machine calibrates itself at each opening.
- Printer is available for receipts after each filling operation (optional).

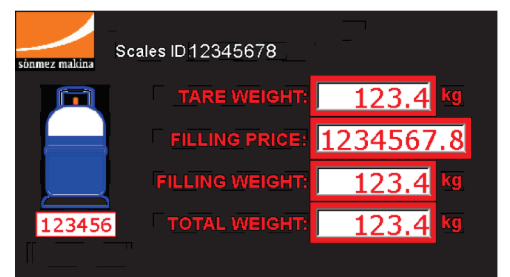
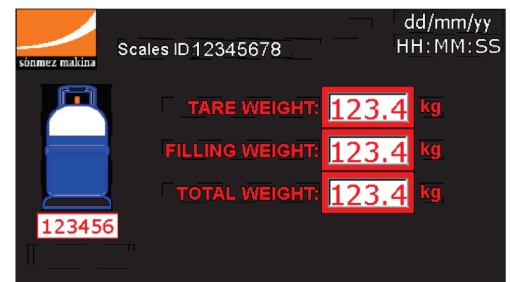
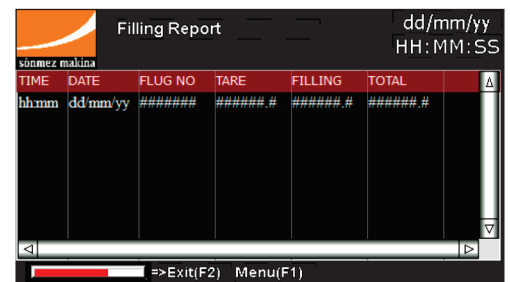
### The filling machine type DFM consists of the following main components:

- Lower scale with electronic ex-proof load cell and control/weighing computer for connection to 24 V DC power supply.
- Base console with stainless steel weighing plate.
- Aluminium column with attached aluminium IP66 box for solenoid valves and pneumatic regulator.
- Centring parts for cylinders.
- Different types of filling heads for different types of cylinders.
- Necessary compressed air and gas hoses for connection to manual or automatic filling heads.
- Connection arrangement for LPG and compressed air with corresponding electronically controlled compressed air.

## TECHNICAL SPECIFICATIONS

The electronic filling machine has the following main technical specifications;

- Having ATEX and CE type approval certificates.
- The weighing computer calculates and shows the weight in kilograms according to the SI Standard.
- Weighing range: Min. 1 kg - Max. 150 kg.
- Weighing sensivity 10 grams.
- Display division: 100 g (e.g. 15.1 kg, 15.2 kg, 15.3, etc.)
- The filling machine is designed for installation in locations in which the temperature may vary between -10°C and +50°C.
- Equipped with ATEX approved single point load cell.
- The weighing accuracy of the load cell is according to OIML R 60.
- Load cell capacity is 300 kg.
- Ex-proof panel box for display monitor and ex-proof push control buttons.
- Insensitive to LPG wave inside the cylinder.
- Zero correction before each weighing available.
- Universal stationary model for filling cylinders from 1 kg to 50 kg.
- Steel parts shot blasted and painted with electrostatic powder paint.



# LPG STORAGE TANKS WEIGHING AND STOCK MANAGEMENT CONTROL SYSTEM



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## LPG STORAGE TANKS WEIGHING AND STOCK MANAGEMENT CONTROL SYSTEM

Ex-proof type storage tank weighing system is strongly advised for stock control of LPG cylinders filling plants. The system consists of four pieces of ex-proof type load cells and their installation kits, one ex-proof junction box, data transfer cables and one PLC equipped control panel. The load cells are connected to a control panel where you can monitor the weight of the product inside your tank. You can see what ever goes into the tank and what ever comes out of the tank. By this way you can have stock control and manage supply times for your storage tank. The system optionally has the remote monitoring feature. The control panel has a USB memory stick port where you can plug your flash memory stick and get the records at any time you like. The system keeps records internally up to two years. The system records the tank weight at every ten minutes. After you fill your tank, you can see how much gas you have inside your tank and when you start filling cylinders, you can see how much you are selling at every hour, day or week. There is also a chart on the control panel which shows the speed of sales graphically.

### **Specifications:**

- The system has tested design
- Complete modular system
- Final calibration and zero adjustment is made at site after installation

### **Your Benefits:**

- Removes burden of site inspection for stock control
- Very accurate system with up to 0,5 kg sensitivity
- Gives opportunity to control and manage gas supply before the tank is empty

### **Your Possibilities:**

- Ethernet network connection is available
- It can applied to existing storage tanks
- It can be applied to storage tanks from 1MT to 100MT

## THE PHOTOS OF TANK WEIGHING SYSTEM

