



Petrol Pumps & LPG Dispensers

1982



**1980**

**CSA was established**

CSA was established to work in industrial control devices and power electronics areas.

**1982**

**CSA became the first company to produce electronic numerators in the world**

During first 12 years, CSA engaged in the production of electronic numerators only, and served as a solution partner to significant companies of LPG and fuel dispenser manufacturing companies of the world.

**2000**

**CSA commenced manufacturing LPG dispensers and other station equipment**

As usage of LPG dramatically increased in Turkey, CSA commenced LPG dispensers and service equipment. CSA has gained flexibility in to produce brand new models in line with distributor companies' requests.

**2010**

**CSA invested in Afyon (A city at inland Turkey) Organized Industrial Site**

To be able to meet growing demand, CSA made a new factory investment on 8,500 square metres of land piece.

**1994**

**CSA commenced producing and exporting fuel pumps**

Having established a partnership in Moscow, Russia, CSA was granted all related certificates of the sector in Russia. Since 1994, CSA was preferred at 48 stations of 116 newly opened stations in Moscow, and is still serving them.

**1996**

**CSA became the arbiter at Turkish market**

Having been one of the sector majors in Turkey, CSA has commenced to manufacture fuel pumps "completely", thus started to answer the demand coming from Turkish domestic market.

**TODAY**

CSA is engaged in manufacturing of LPG dispensers, fuel pumps and dispensers. In accordance with demands of stations, CSA, also, develops automation and self service systems. All our products (dispensers and pumps) operates fully compatible with automation systems we offer. In line with the demand of customers, CSA produces, imports and exports all kinds of materials, spare parts, etc., as well. Today, many distributors in European and African Continents, In Russia and in Balkans prefers products, services and solutions of CSA.

## VISION STATEMENT

Having used the newest technology and having had the flawless service network, to render innovative solutions in manufacturing LPG dispensers & fuel pumps and other related equipment.



## MISSION STATEMENT

With its experienced DE&RE department and technical squad, and with its high level quality management policy and trustful services and with its start-to-finish solutions that are specifically tailored for each individual project, CSA aims to be an LPG dispenser & fuel pumps producer that is fully respecting the the social and the physical environment.



## PERIODIC CONTROLS

In order to render the best quality, the easiest and the most economic service, CSA conducts periodic controls with its widespread network of authorised service stations and expert personnel.

Periodic controls are conducted inline with a pre-planned schedule.

Periodic controls are vital for fuel distributors to be able to give high quality service to its customers and to achieve customer satisfaction.

Periodic controls make fuel distributor trustworthy in its customers eyes.

Periodic controls are made once or twice a year, in accordance with distributors request.

A list of findings and problems found during the periodic control and solution recommendations thereof, be drafted, and this report be submitted to the distributor for approval.

All necessary forms and reports be prepared, recorded and kept.

## DISPENSER CONTROL AND CALIBRATION

All LPG dispensers be calibrated at intervals in accordance with the international standards (or at shorter intervals as may be requested by the distributor)

Twice a year, ATC alignment be made by our authorised services.

Calibration process is made by our personnel who has been authorised by Ministry of Industry.

All calibrations and other operations are recorded into Ministry-requested and distributor-requested forms.

Manufacturing, certification and control processes of master-meter that is used for calibration are totally made by CSA.

# FUEL PUMP / Dispenser

Motor ..... 0.5 hp. single phase or 3 phase  
 Pump ..... 70 l/min maximum capacity, gear pumps or submersible pumps  
 Measuring cup ..... 0.5 l/tour, positive displacement  
 Measurement accuracy ..... +/- 0.25%  
 Solenoid valve ..... 24 V DC, 2-stage  
 Fast flow rate ..... 45 l/min.  
 Slow flow rate ..... 45 l/min.  
 Pulser ..... 2x50 pulses / revolution, optical reading  
 Fuel gun/nozzle ..... Automatic, thin or thick tipped  
 Other ..... Displays at front and rear, serving one vehicle at one time from either side

## CSA Electronic Pump numarator

Operating voltage ..... 175 ... 250 V AC  
 Power consumption ..... 20 W  
 Solenoid valve output ..... 18-26 V DC, 450 mA  
 Motor output ..... 220 V AC, 6 A / 380 V AC 3x3 A  
 Display ..... 25 mm. LCD display, 6 digits for amount, 6 digits for liter, 4-digit for price per liter  
 Price setting ..... With keys, encrypted  
 Programming ..... with 4 keys, as liters and as money  
 Measuring accuracy ..... 10 ml  
 Measuring speed ..... 0 ... 100 l/min  
 Totalizer ..... At least six digits, as liters  
 Operating temperature ..... -40 ... +60 Degrees Celsius  
 Operating humidity ..... 0 ... 95%  
 Input-output connections.... socketed plug-in

- » Total Liter and money; last 8 sales; flow rate and temperature can electronically be monitored.
- » Might be onnected to the central computer; automation, tank tracking and shift calculation van be made.
- » Shows errors in the system, and cuts the operation is there is an error in the system.
- » If detects no-flow of product, cuts operation.
- » Slow flow rate time at the end, might be set as requested.
- » Flawless connectivity and ease of service are provided by means of socketing system.



# LPG Dispenser

Pump	Submersible pump or over ground pump
Measuring cup	0.5 l / tour, positive displacement
Measurement accuracy	+ / - 0.5 %
Solenoid valve	24 V DC, 2-stage
Fast flow rate	45 Lt / min (no back pressure)
Slow flow rate	5 Lt / min
Pulser	2x50 pulses / revolution, optical reading
Fuel gun	Varies as requested
Other	One display per counter, serving four cars simultaneously at two sides

## CSA Electronic Pump numarator

Operating voltage	175 ... 250 V AC
Power consumption	30 W
Solenoid valve output	18-26 V DC, 1000 mA
Motor output	220 V AC, 6 A
Display	25 mm. LCD display, 6 digits for amount, 6 digits for liter, 4-digit for price per liter
Price setting	With keys, encrypted
Programming	with 4 keys, as liters and as money
Measuring accuracy	10 ml
Measuring speed	0 ... 100 l / min
Totalizer	At least six digits, as liters
Operating temperature	-40 ... +60 Degrees Celsius
Operating humidity	0 ... 95%
Input-output connections	socketed plug-in

- » Total liter and money, last 8 sales, the flow rate and product temperature can be monitored electronically.
- » Might be connected to the central computer, automation, tank tracking, shift calculation is made.
- » Shows errors in the system, and cuts the operation is there is an error in the system.
- » If detects no-flow of product, cuts operation.
- » Slow flow rate time at the end, might be set as requested.
- » Flawless connectivity and ease of service are provided by means of socketing system.

Calibration and temperature compensation can be made from the counter.

Electronic calibration limit: +/- 6.35 % 0.05 %.

LPG density limits: 0.520 ... 0.590: 0.05 kg / L.





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