



TRANSPORTABLE FILLING FUEL UNIT MICROSTA 12

FUEL DISPENSING UNIT SM 14



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MicroSta 12

SM 14

MICROSTA 12 is a small-size filling station mounted inside a container module.

MICROSTA 12 is designed to dispense vehicle fuel in towns, on the side of national roads, in isolated rural areas, tourist resorts, county roads or in the yard of commercial companies, for their own fleet of vehicles.

MICROSTA 12 small-size filling station includes all equipment required for storage and simultaneous distribution of two types of vehicle fuel, in perfect safety.

The total storage capacity is 12,000 liters, in a tank with two compartments, independent and tight

The fuel dispensing pump is a double gun pump type ZS-2402, made by SCHEIDT & BACHMAN of Germany (exclusive supplier for ARAL, AGIP, SHELL etc.).

The automation rigging is complex and makes the operation of the station possible by only one operator per shift.

The atmosphere in the tank room and dispensing pump room is monitored by the GMC7022E gas analyzer produced by Bieler+Lang of Germany and the automatic fire extinguishing installation.

The room designed for the operating personnel allows monitoring of the whole installation with the aid of the TFAMC control and signaling panel, and provides an adequate level of comfort due to its interior outfitting (aluminum frames with thermopane glass, aluminum slat horizontal blinds, linoleum, desk, chair, metal cabinet).

The station can be transported by road vehicles.

MICROSTA 12 small-size filling station is homologated, favorably approved by the Prahova Fire Brigade Command and Prahova Office for Environment Protection, is certified Ex by INSEMEX Petrosani by examination certificate EX type no. SECEEx NMATEX 2000.12008X. The filling station commissioning requires a minimum preparation of the location: concrete platform, vehicle access ramp, earthing and connection to the 380 V power grid. The product is delivered within 45 days since contracting.

FUNCTIONS OF MICROSTA 12 FILLING STATION:

Storage capacity

12000 lit.

Tank loader with two electric pump groups, made up of:

- centrifuge pump AC 302, nominal flow rate 250 lit./min
- Ex electric motors 2.2 kW-380 V/1500 rpm
- rough filter with metal screen 150
- oil product transfer hose with copper insert 2" x 4.0 m
- quick joints for tank truck connection 3"

Fuel dispensing by double gun S&B ZS 2402

- min.-max. flow rate 2-50 lit./min/gun
- SLIMLINE dispensing hoses 1" x 4.0 m
- automatic oil product dispensing guns ZVA 1"
- LCD display 3 registers/6 characters

Liquid level measurement inside tank:

- a. Optical view level slots-measurement accuracy 1.65-10 lit./mm
- b. LED electronic level indicator
- indication accuracy 300-400 lit/step

Controls:

- all electric controls are performed from the control and signaling panel located inside operator's room
- control of the spherical valves is performed by actuation levers.

Fire protection inside the storage tank room:

- a. Automatic fire signaling and extinguishing installation
- temperature sensor inside storage tank room, lower level 70°C
- acoustic and optic signaling
- delay in disconnecting general power supply 15 sec
- powder and N2 fire extinguisher 50 kg

b. monitoring equipment for potentially explosive environment

c. thermal insulation of walls is made of fire-proof polyurethane

Measurement of potentially explosive environment:

-Bieler+Lang gas analyzer type GMC 7022E, 822Ex sensors

- measurement range 0-90 % LIE
- pre-alarm and signaling level 20 % LIE
- alarm and general power disconnection 50 % LIE

Automation:

- tank loading is limited to 95 % of maximum volume
- when the temperature inside tank room reaches the level of 70°C, it triggers the automatic fire extinguishing installation
- fume concentration over the pre-alarm level triggers optical and acoustic signaling, disconnects electric consumers
- fuel dispensing blocking during tank loading with fuel

The **SM 14** fuel storage and dispensing is designed mainly for the own gasoil storage of commercial companies, a storage facility meeting all environment, fire safety and extinguishing, and labor protection norms.

The strain bearing structure is made of rolled steel profiles and the roof is made of Oltpan, a sandwich of metal plate with injected polyurethane, which provides thermal protection from sun rays.

The cylindrical storage tank has a capacity of 14,000 liters gasoil (optionally, smaller capacity tanks can be provided).

Possible fuel leaks from the tank are taken over by the leak retaining tray and the gas exchange on loading/unloading the tanks is made by a 1" metal pipe outfitted with a flame arrester.

Fuel tank loading is achieved by the electric pump group, filter, 2" hose, providing a flow rate of 250 lit./min.

The system of measuring the liquid level in the tank is of the optical view slot type, rendering an accuracy of 6 liters per indicated mm.

The gasoil dispensing pump is of the ZS-2401 type, made by SCHEIDT & BACHMAN of Germany.

Optionally, the module can be outfitted with a dispensing pump for an increased flow rate of 5 to 130 lit./min.

The electric panel controlling the entire installation and the fire protection and fighting point are mounted on a separate rack, located 4.5 m away from the module.

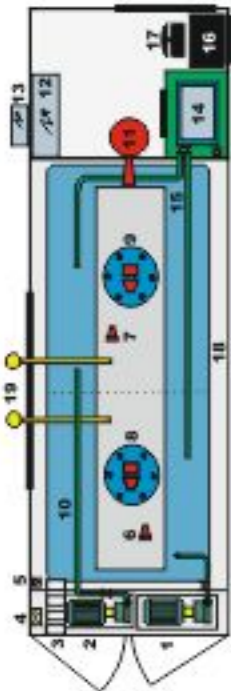
All electric equipment mounted in the module are of Ex-make.

The module is supplied from the 380 V grid and has an installed power of 2.8 kW.

The location of the module requires an earthing element with 1 Ohm resistance and, if the weather conditions so require, a lightning protection installation should also be provided.

On the outside the module is protected by metal grating.

The location of the module requires a surface of 3 x 6 meters, according to the provisions of NP004/1/1999 norms.



MICROSTA 12 Components:

1. Gasoline transfer electric pump
2. Ch1 sensor measuring fume concentration inside tank room
3. Gasoil transfer electric pump
4. Tank leak retaining tray
5. Tank loading piping
6. Gasoline level measuring device
7. Fuel storage tank
8. Gasoil level measuring device
9. Gasoline circuit piping
10. Ch2 sensor measuring fume concentration inside dispensing pump room
11. Automatic fire extinguishing installation
12. Fuel dispensing pump
13. Control and signaling panel

Delivery set:

1. MICROSTA 12 filling station 1 pce
2. Company logo and flags 1 set
3. Collapsible overhang 1 pce
4. Fixed overhang 1 pce
5. Flag poles 2 pcs
6. Desk 1 pce
7. Chair 1 pce
8. Metal filling cabinet 1 pce
9. Key set 2 sets
10. Price stickers 2 sets
11. Earthing crocodile clamps 1 pce
12. DR 100 hoisting device 1 pce
13. Special key for lid 1 pce
14. Special key for connection 1 pce
15. Loading hoses, 2" 2 pcs
16. Aluminum horizontal slat blinds 3 pcs
17. Tank airing pipes 2 pcs

Delivery set:

1. SM 14 installation 1 pce
2. Fire fighting station 1 pce
3. Key set 2 sets
4. Earthing crocodile clamps 1 pce
5. Special key for transfer pump lid 1 pce
6. Special key for tank truck connection 1 pce
7. 2" loading hose 1 pce
8. Flame arrester and tank airing pipe 1 pce
9. Electric control panel 1 pce
10. Electric wiring 1 set

FUNCTIONS OF SM 14:

Storage capacity 14,000 lit

- Tank loading by electric pump group, made up of:
 - AC 302 centrifuge pump, nominal flow rate 250 lit./min
 - 100 ASA, ExII B14 electric motors 2.2 kW-380 V/1500 rpm
 - filter with metal screen 150 m
 - oil product transfer hose with copper insert 2" x 4.0 m
 - quick joint to connect to tank truck 3"
- SCHEIDT & BACHMAN fuel dispenser 2401 Z
 - min.-max. flow rate 2-50 lit./min/gun
 - reusable fine filter with metal screen 40 mm
 - SLIMLINE dispensing hose 1" x 4.0 m
 - ZVA automatic oil product dispensing gun 1"
 - LCD display

Liquid level measurement inside tank: optical view level slot:

- measurement accuracy 1.65-10 lit./mm
- min./max. measurement range 100/2000 mm

Antirust protection provided by:

- inside and outside 2-coat primer min. 80 micrometer
- inside painting, primer 4906 DIALUC-USA min. 60 micrometer
- outside painting by alkydic paint DURACHLAND-type min. 60 micrometer

Controls:

- electrical control is performed from the control panel located together with the fire fighting point 4.5 m away from the module
- control of the spherical valves is performed by actuation levers

Fire protection and fighting

- a. powder and N2 fire extinguisher 50 kg
- b. fire fighting station with standard outfitting (shovel, pickaxe, pail, sand box)
- c. module roof thermal insulation by fire-proof polyurethane 40 mm
- d. Ex-type electric equipment in danger areas (0, I and II), local lighting of module in fuel dispensing pump area by 2 x 36 W, Ex lamps

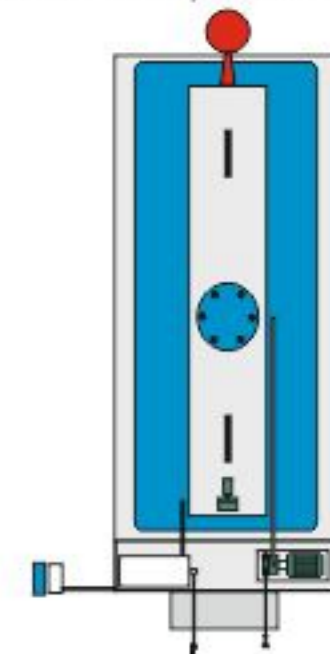
Automation

- tank loading is mechanically limited by a 2" floating cock at 90 % volume
- disconnection of all electric equipment by pushing button N1 117 Ex

Transport of the module can be achieved by standard road vehicles of 6 t loading capacity

SM 14 Components:

- Fume evacuation system
- Module strain bearing structure
- Tank leak retaining tray
- 14 m3 tank
- Lifting eye
- Manhole
- Level measuring device
- Gasoil inlet piping
- Dispensing pump
- Fire protection and fighting station
- Electric panel
- Electric wiring route
- SLIMLINE dispensing hose
- ZVA dispensing gun
- 3" coupling to tank truck
- 2" tank loading hose
- Access step
- Emergency Stop button
- Electric loading pump
- Metal grating
- Tank loading piping.





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