

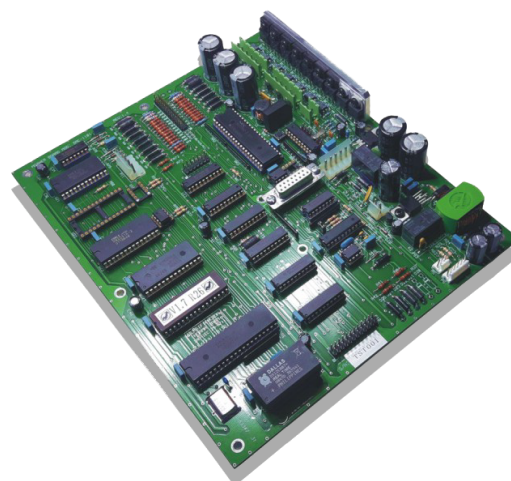


SMC-1100

ELECTRONIC HEADER

SMC-1101 Mother Board

The **SMC-1101** Mother Board is the Data Processor and Peripheral Control Unit for the **SMC-1000** System. It contains two microprocessors: one primary (CPU) and other secondary. The primary processor, controls two expense hoses and the parameters settings, such as Price and Density. The secondary processor is responsible for controlling the basic functions of hardware, such as generating the background signal for LCD modules of subgroup **SMC-1103** Display Board.

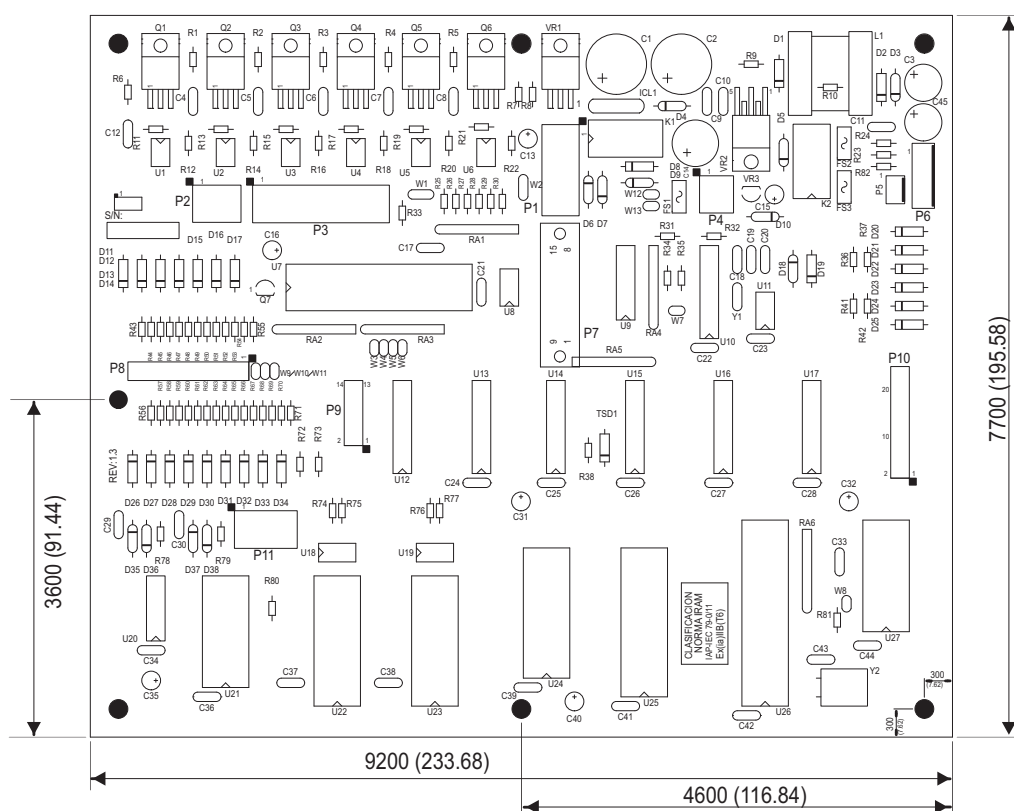


General Technical Specifications

- Two microprocessors ensure efficiency, safety operation and reliability.
- Detection and Warning System in operations of fraudulent charges.
- Automatic three-lines selection system, is supervised by main microprocessor.
- Intelligent recognizing of start of charge.
- Diagnostic routines runs automatically on start-up and hose unhook.
- Inviolable total register can be observed by pressing a pushbutton.
- Partial counter register of volume or sales are easy reported.
- Serial communication port for automotion integration (protocol included).
- Early Power Fail Detection.
- Battery Backup.
- EEPROM guarantee safe saving of user programmed parameters.
- Direct retrieve of previous sale.
- Intelligent solenoid valve activation system for low consumption and maximum safety.
- 3-way (6 solenoid valves) and 1-way (2 solenoid valves) models with end-of-charge lamp connector.

Firmware Special Features

- Total access to system configuration by microkeyboard, there no need to open the dispenser.
- Presentation of instantaneous flow in each dispatch.
- Calibration of dispenser via special functions system.
- Monetary rounding function.
- Selection of deferred price for hose.
- Efficient preload system for fast dispenser operation.
- Random prize system, offers prizes for dispatching CNG.



***For more information contact us, our
After-Sales Service is at your disposal.***

www.develcognc.com

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**Calle 141 N° 2046 - (1884) Berazategui
Buenos Aires - Argentina**

Tel: (5411) 4216-8330 / 4226-2446

E-mail: info@flowmetek.com



SMC-1101

Mother Board V1.7R26 Solenoid valve connection (SV)

HOSE 1

1 2 3 4 5 6

LOW MEDIUM HIGH

SV1 SV2 SV3

HOSE 2

1 2 3 4 5 6

LOW MEDIUM HIGH

SV4 SV5 SV6

For Mother 3 Ways, 6-position terminal blocks per hose are supplied. For Mother 1 Via, 2-position terminal blocks per hose are supplied.

**24 Vdc/ac
End of Charge
Lamp**

**Test button for
manual power on
of solenoid valves**

HOSE 1

1 →

HOSE 2

→ 6

USE MODE

Touch the test button 1 time, then press again for 1 second until the first LED of Hose 1 lights up. For each press of the button, each solenoid valve (SV) will turn on in sequence, starting from Hose 1 and continuing with Hose 2. Once all the SV are turned on, the next pulse will turn them off and exit test mode. In the case of the 1-Way Mother, the testing sequence is respected for visual purposes even if the SV excitation hardware is not installed.

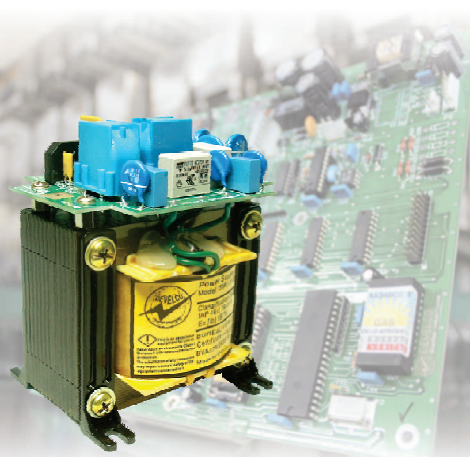


SMC-1100

ELECTRONIC HEADER

SMC-1102 Power Board

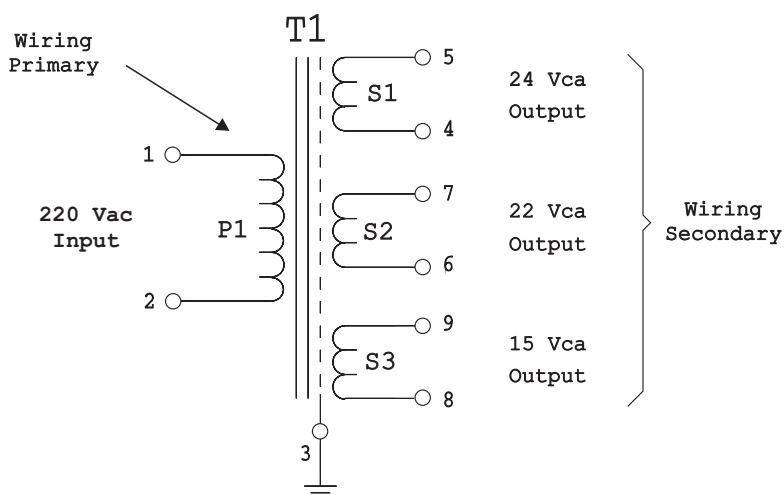
The subgroup **SMC-1102** Power Board is the main power source of **SMC-1000** System. In addition to energize the Head Control Electronic can supply power for two **SMC-1200** Flow Mass Meters. Powered with low voltage (AC and DC), with maximum values that do not exceed 24 Vac or 30 Vdc to the rest of the subgroup and / or electrical devices (**SMC-1101**, **SMC-1202**, CNG cut solenoid, beeper, etc.) The subgroup **SMC-1102** Power Board has double protection: Common Mode and the Differential Mode. Both modes offer a broad protection against line transients.



General Technical Specifications.

- Supply low voltage devices (24/30 Vac).
- Differential Line Filters for EMI protection.
- Electrostatic Dual Screen.
- Mylar Insulation.
- Secondary windings with varistor protection.

Schematic Diagram.



Electrical Parameters			
Wiring	Voltage [Vca]	Current [Amp]	Power [Vamp]
S1	24	3	72
S2	22	2	44
S3	15	1	15
P1	220	0,68	150

Maximum values for system 3-way loading.
Data for each winding transformer used in Power Board.

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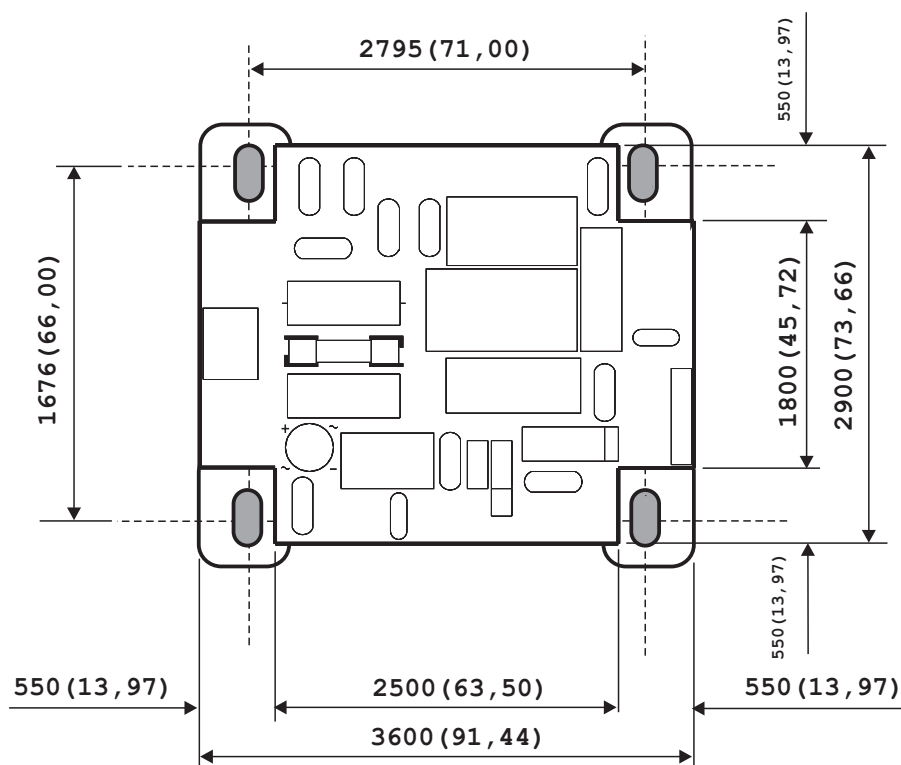
Integral Solutions for the CNG Industry.



SMC-1100

ELECTRONIC HEADER

SMC-1102 Power Board Dimensions



Note: Measurements in thousandths of inch and millimeters.

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SMC-1103 Display Board

Is the presentation unit or display **SMC-1000** System. It uses liquid crystal displays and shows the basic information of dispatch: Amount, Volume and Price. Are also displayed error code and data belonging to different functions programmable of **SMC-1100** Head Control Electronic. There are two models, the **SMC-1103** (standard) and **SMC-1103H** (higher visibility). The first model has fiber optic backlight (optional).



General Technical Specifications

Dimensions of SMC-1103 LCD modules .

6 Dígitos 3/4" (Amount and Volume Dispatched).
4 Dígitos 1/2" (\$/m³, Error Codes).

Dimensions of SMC-1103H LCD modules .

6 Dígitos 1" (Amount, Volume Dispatched, \$/m³, Error Codes).

Electrical Safety

Intrinsically Safe Standard Classification
IRAM-IAP-IEC 79-0/11 Ex ["ib"] IIB T4.

Extended Range of Temperature

(-30 to +85 °C).

SMC-1103G Enclosure Protection for the SMC-1103 Display Board

Protects Display Board of shocks, moisture and dust, ensuring the operation of the unit throughout the period of work without technical problems. The base is made of plastic material highly resistance to impact, which guarantee the appropriate protection of the unit to shocks. Ensures an IP55 sealing thanks to silicone gaskets high quality hosted on the front and in the data connector.

As optional the cabinet can be manufactured without silkscreen to customize the front as customer needs.



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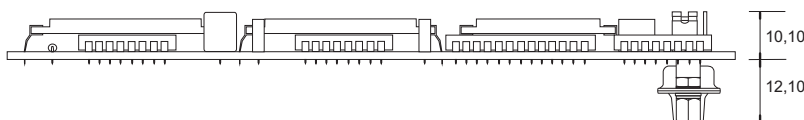
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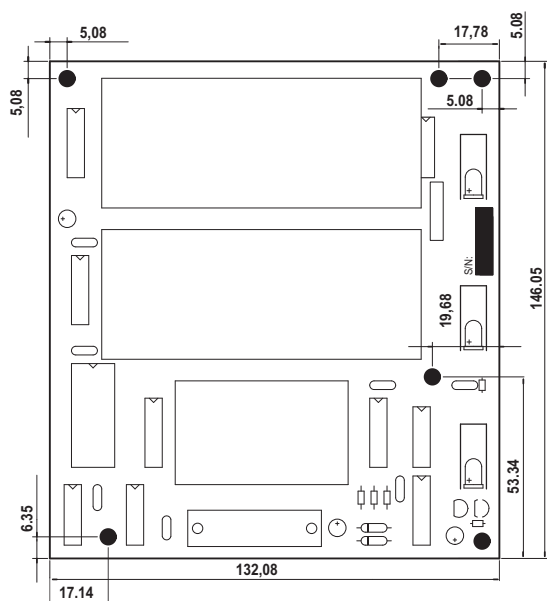
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ELECTRONIC HEADER

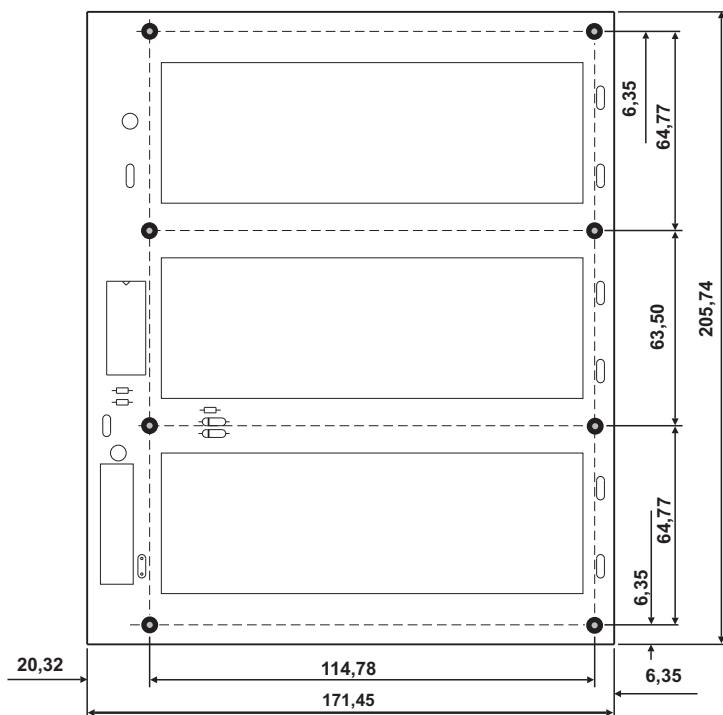
General dimensions of SMC-1103/ SMC-1103H Display Models



Note: measurements in thousands of inch and millimeters.



SMC-1103
Fiber optic backlight



SMC-1103H
Higher Visibility

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