Multi-point sequential, gaseous phase injection

Serial type control
The OEM ECU manages engine control maintaining all OEM functionality on gasoline and LPG. OBD compatible.

Bi-fuel applications
Seamless changeover between gasoline or LPG, under all driving conditions.

Innovative Design
Low maintenance, durable operation on LPG.

IMPCO Technologies Inc.
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Sequent injection systems are setting a new standard for performance, reliability, ease of installation and after sales service. Sequent 24, is a high value system developed for 4 cylinder vehicles. Sequent 56, a new gaseous sequential injection system for 5-6-8 cylinder vehicles.

User Interface Software.
Windows compatible software and a notebook computer are used to define user preferences during system setup. ECU mapping is simplified using automated application tools and data. The user can define several parameters controlling refinement and calibration of the ECU.

Guided installation. Onboard Diagnostics.
Integrated diagnostics verify setup, calibration and allow rapid troubleshooting. Numerical and graphical options simplify system and device diagnostics. Offline functions allow user to update and change previously captured data and graphics creating an archive for future review.

Sequent 24/56 Technical Data

Electronic injector, IN03
Patented bottom feed design
Floating frictionless shutter
Impedance: 2.04 Ω / 2.35 mH at 20°C
Temp: -40°C to 120°C
Voltage: 6V dc – 16V dc

PT Sensor. Gas pressure/temperature sensor
Weight: 17 grams
Overall dimensions: 22mm (w), 54mm (h) with grommet
Pressure range for LPG: 0–2.5 bar (36.3 PSI)
Pressure range for CNG: 0–4 bar (58 PSI)
Integrated connector, Precision 1.5 % F.S.
Working temperature -40°C to 120°C
Output 0–5V dc

Sequent 56 ECU, Microcontroller, 32 bit 20 MHz
Working temperature: -40°C to 120°C
Sealing for immersion. Compliance automotive standards for protection and input/output signals
Working voltage: 6V dc – 18V dc
Sensors/actuators diagnosis compatible with EOBD
Communication/programming with PC through K line
Support KWP2000 communication protocol
Support CAN 2.0 communication protocol
EMC compliant, Maximum 8 injectors
Integrated injector cut and emulation

Sequent 24 ECU, microcontroller
Operating Temperature: -40°C to 125°C
CPU: Motorola MC9S12DG128B
Electronic components: SMT construction except relays, some condensers and power components.
Consumption: max 200 mA (except sensors/actuators)
Operating voltage: 8V dc – 16V dc
“SICMA” FCI 24-pole connector, IP67 protection

Sequent 24/56 Genius MAX, LPG reducer
Single stage with diaphragm
Adjustable pressure: 150 kPa (relative to engine intake pressure)
No draining required
Maximum power : 200 kW (268 HP)

Sequent 24/56 Genius, LPG reducer
Single stage with diaphragm
Adjustable pressure: 120 kPa or 150 kPa (relative to engine intake pressure)
No draining required
Maximum engine power: 140 kW (188 HP)

MAP sensor, manifold pressure
Weight: 17 grams
Pressure range for LPG: 0–2.5 bar (36.3 PSI)
Integrated connector
Accuracy 1.5 % F.S.
Working temperature -40°C to 120°C
Output 0–5V dc

Gaseous phase filter, FJ1HE
Cartridge filter
Pressure decay: 35 kPa
with Q=18000 Nl/h of air