

A tradition
of excellence
and innovation...

BATCHEN



CONCEPT 2000

Automotive LP Gas Dispenser

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LP Gas Dispensers for the New Millennium

The current range of Batchen Dispensers are the result of more than 35 years corporate experience in the design, manufacture, installation and maintenance of LP Gas equipment, and more than 20 years experience with LP Gas Dispensers.

Over this period the organisation has won an unparalleled reputation for the performance, reliability and durability of its dispensing products. Today the organisation is a leading supplier to the Australian market, and a major international exporter.

This reputation has been won on the basis of being responsive to customer needs in dispenser designs, and providing a comprehensive service – site design, equipment supply, equipment installation, and after-sales-support.

Concept 2000 was designed in collaboration with our customers to deliver a sleek, ultra-modern design. It is available in two styles – the first intended to closely match existing forecourt equipment, and an alternative variation on the same theme, designed to distinguish LP Gas from other fuels.

The Batchen Dispenser Tradition:

- Superlative safety
- Robust construction
- Clean, modern styling
- Simple, convenient operation
- Long-term accuracy and reliability
- Optional communication protocols

Frame Styling Options:

Two alternative styles are available:

- Standard
- MPP look-alike

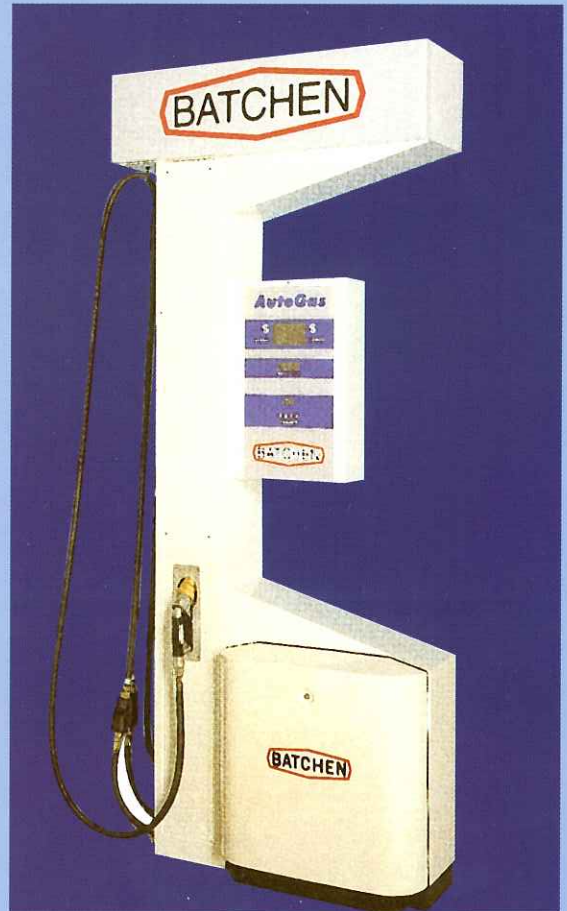
The modular design approach facilitates customisation / specialised designs (to match specific corporate imaging requirements) – available on request.

Communications Options:

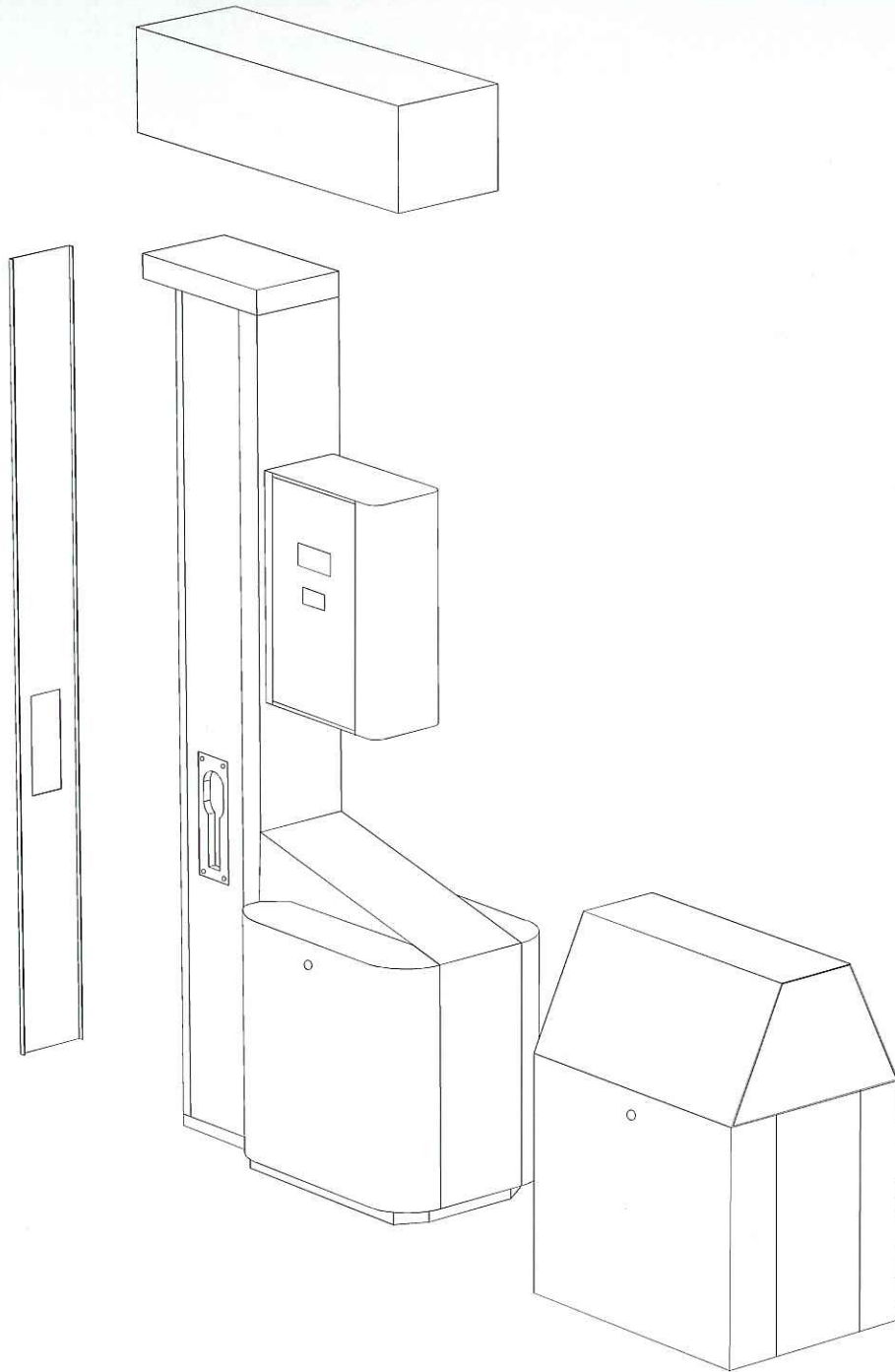
- Email, Gilbarco, or PEC/Compac protocols available as standard (multiple options in each dispenser model)
- Other protocols available on request

Other Options:

- In-dispenser magnetic card reader
- Pre-set value and/or volume to be dispensed
- Automatic density sensing



*The modularity of Concept 2000
offers the potential for
economical customisation*



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SPECIFICATIONS

General:

Concept 2000 consists of separate hydraulic and electronic modules, mounted in a substantial steel frame. Ease of access to both modules is assured by removable panels secured by keyed locks. Hoses are suspended from cable retraction systems. Both single and dual hose versions are available.

Standards Compliance:

Concept 2000 is approved by all relevant authorities in Australia, including The National Standards Commission and Standards Australia.

Design complies with AS2229.2 (Liquefied Petroleum Gas Dispensing Equipment), AS1596, AS3000 and other applicable Australia Standards. Typically these are equivalent to similar European, North American and other international standards.

Specific information can be provided on request.

Frame & Panels:

3mm zinc plated mild steel, or 2mm stainless steel structural frame.

External surfaces stainless steel, powder coated stainless steel or fibreglass.

Internal metal surfaces plated and (in some cases) powder coated.

Hydraulics:

Hydraulic module is mounted on a separate sub-frame, facilitating removal for service or upgrade. Single and dual hose versions are available.

Hydraulic system is comprised of:

- Batchen dual piston, double acting meters (glandless meters available as an option).
- Batchen vapour eliminator/filter assembly:
 - Type: Constant bleed
 - Volume: 1,233 ml
 - Filter size: 25 micron
 - Filter area: 200 cm²
- Batchen differential valves:
 - Standard operating pressure: 2 bar (others available)
- Batchen Sentry 20 hose break-away couplings.
- LGE Gasguard "Pressure Seal" technology hose nozzles:
 - 1 3/4" Acme car filler connection (others available)
 - 1/2" or 3/4" NPT inlet swivel
- Automatic vapour detection/density monitoring is available as an option (in this case the differential valve is not required).

Performance Specification:

Recommended minimum flow rate:	10.0 litres/minute
Recommended maximum flow rate:	60.0 litres/minute
Maximum operating pressure:	23.8 bar
Temperature compensation range:	-30°C to +45°C
Accuracy:	+/- 0.4%

Connections:

Liquid inlet flange: 32mm x Class 300 ANSI

(others available)

Vapour return flange: 20mm x Class 300 ANSI

(others available)

Electrical Equipment:

All electrical equipment is Explosion Proof, protected by one or more of the following techniques:

ZONE I & II:

Intrinsically safe (Ex ia or ib, AS 2380.7)

Flameproof enclosure (Ex d, AS 2380.2)

Encapsulated (Ex m, AS 2431)

Increased Safety (Ex e, AS 2380.6 – Cable terminations only)

ZONE II only:

Non-sparking (Ex n, AS 2380.9)

Various electronic options are available; this results in some variance in detailed specifications. The following are typical:

Functional Specification:

Micro-processor controlled operation and volume/price computation.

Non-volatile or battery maintained memory (minimum 20 days).

Dual channel pulsers with self error checking.

Automatic temperature compensation.

Large back-lit liquid crystal displays.

Optional electronic vapour detection/density monitoring.

Optional preset value and/or volume to be dispensed.

Optional magnetic card reader.

Performance Specification:

Total volume display range:

0 - 999.99 units

Total value display range:

0 - 99999 units (variable decimal point)

Price per unit display range:

0 - 9999 units (variable decimal point)

Cumulative volume range:

Up to 9999999999 units (dependent on model)

Cumulative value range:

Up to 9999999999 units (dependent on model)

Maximum metering resolution:

2 millilitres or equivalent (@ 100 litres/minute)

1 millilitre or equivalent (@ 50 litres/minute)

Calculation accuracy:

Rounded to the nearest sub-unit of currency

Data retention: Minimum 20 days

Electrical & Environmental Specification:

Mains supply (specify at time of order)

110 - 240 Volt, 50/60 Hz

Operating temperature range: -30° to + 45°C ambient

Humidity range: 0 - 90% (non-condensing)

KEY FEATURES

- Design consistent with modern petrol pumps.
- Modular design approach.
- Simple, reliable hose retraction mechanism, to support the hoses clear of the ground and away from dress panels.
- Optional overhead light-box for display of corporate signage or fuel grade information.
- Available in single and dual versions.
- Nozzles recessed inside the line of the dress panels to minimise the risk of nozzles being knocked out of their holders.
- Compact size to optimise site utilisation.
- Two or more communication options available in each dispenser (Email, Gilbarco & PEC/Compac).
- Use of high durability materials (plated & stainless steel, high tech plastics, powder coating) makes corrosion a thing of the past.
- Robust frame construction to maximise protection of hydraulics.
- Advanced hydraulic design provides optimal accuracy, consistent reliability, extended durability and superlative safety:

Batchen meters (with option of glandless meters)

Batchen Sentry 20 hose breakaway couplings

LGE Gasguard "Pressure Seal" technology nozzles (1 3/4" Acme connection - others available on request.)

- Modern electronics incorporating:

The latest microprocessor technology.

Modern Liquid Crystal displays for optimal reliability and flexibility.

Variable decimal point location.

Easy keypad access for reprogramming of dispenser.

Automatic temperature compensation.

Multi-point programming of density from keypad (or option of automatic density sensing).

Optional pre-set value and/or volume to be dispensed.

Extended data retention in the event of a power failure.

Comprehensive diagnostics to assist trouble shooting.

- Modular design of hydraulics and electronics, with easy access, to facilitate service.
- Maximum commonality of hydraulic and electronic components across models to minimise spares holding requirements.

