

**Australian/New Zealand**  
**Certification Scheme for**  
**EXPLOSION-PROTECTED ELECTRICAL EQUIPMENT**  
**ANZEx Scheme**

***Certificate of Conformity***

Certificate No.: ANZEx 07.3052X	Issue No.: 2	Date of Issue: 07/09/2010
	Issue No.: 0*	Date of Issue: 22/11/2007

*\* This ANZEx certificate was issued on the basis of an existing AUSEx Certificate of Conformity (Ex3239X-3) in accordance with Clause 3.3 of MP87:2004. Certificate AUSEx3239X was first issued on 19/12/1995.*

**Applicant:** D J Batchen Pty Limited  
2-6 Raglan Road  
AUBURN NSW 2114  
AUSTRALIA

**Electrical Apparatus:** LPG Driveway Dispensers Models Commander II and Concept 2000

**Type of Protection:** Ex d, e, ib, m

**Marking Code:** D J Batchen Pty Ltd  
LPG Driveway Flowmeter  
Ex IIA T3 IP23 Type A  
ANZEx 07.3052X  
S. No. - - - -

**Manufacturer:** D J Batchen Pty Limited  
2-6 Raglan Road  
AUBURN NSW 2114  
AUSTRALIA

**Manufacturing Location(s):** As above

*The EPEE certification database located at <http://www.anzex.com.au> shows the validity of this Certificate.*

**This certificate and schedule shall not be reproduced except in full**

	<p>Certificate issued by:</p> <p><b>TestSafe Australia</b></p> <p>919 Londonderry Road, Londonderry NSW 2753</p> <p><b>Australia</b></p> <p><b>Phone: +61 2 4724 4900      Fax: +61 2 4724 4999</b></p> <p><a href="http://www.testsafe.com.au">http://www.testsafe.com.au</a></p>	 <a href="http://www.jas-anz.com.au/register">www.jas-anz.com.au/register</a>
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*This certificate is granted subject to the conditions as set out in Standards Australia/Standards New Zealand Miscellaneous Publication **MP87.1:2008**.*

**STANDARDS:**

*The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:*

**AS 2229.2-1988**      Electrical equipment for explosive atmospheres – Electrical systems of dispensing equipment –  
Part 2: Liquefied petroleum gas dispensing equipment

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standard(s) listed above.*

**ASSESSMENT & TEST REPORTS:**

*The equipment listed has successfully met the assessment and test requirements as recorded in:*

Test Report No. and Issuing Body:                      **13852, 14235, 29168, 30681, 32575**

Quality Assessment Report No. and Issuing Body:    **TestSafe QAR 07.002/2010**

File Reference:    **2010/011505**



Ujen Singh

*Signed for and on behalf of issuing body*

Quality & Certification Manager

*Position*

07/09/2010

*Date of Issue*

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**This certificate is not transferable and remains the property of the issuing body  
and must be returned in the event of it being revoked or not renewed.**

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**Schedule**

**EQUIPMENT:**

The 'Batchen' LPG Driveway Dispensers consist of separate hydraulic and electronic modules, mounted in a substantial steel frame. These are designated as Commander II (CII) and Concept 2000 (C2000), as provided in Drawings 900-015-01 and 900-016-01.

Use of adequate horizontal and vertical vapour barriers, with venting provided near the bottom of the enclosures, allow for the hydraulic compartment to be designated as Zone 1 Area and the display enclosure with electronic boards, display, lights as Safe Area. The various electrical parts are installed in the Zone 1 or Safe Area of the dispenser, as provided in the Block Diagrams 000-040-00, 821-702-01 and 821-704-01

The Computer board and Pulser is provided by Email Electronics in Local or International Version, but with no difference apart from the communication port. The Computer board and pulser may also be provided by Transponder Technologies. The other electrical parts e.g. solenoids, junction boxes, registers, keypads, lighting etc are sourced by Batchen.

The model numbers are described by a code "Type - Model ---". The following provides the description of the letters:

Type CII Commander II  
Type C2000 Concept 2000

Model S--	Single hose
Model D--	Dual hose
Model Q--	Quad hose

Model --*	This letter (for example C, E, T, W etc) describes the cabinet design, including hose suspension and nozzle placement.
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Model --E	Dispenser electronics provided by Email Electronics (also called Vision)
Model --T	Dispenser electronics provided by Transponder Technologies

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The equipment uses the following separately certified parts:

- Register Electronics (Type T5 manufactured by Transponder) AUS Ex 02.2561X-3
- Ex e Junction Box (Type 8146 manufactured by CSE.Ex, Stahl, Pierlite AUS Ex 2187X or equivalent)
- Or, an Ex d Junction box manufactured by Govan AUS Ex 610X).
- Solenoid Valves (Type EM6 manufactured by Ascomation AUS Ex 3032 or equivalent)
- Emergency Stop switch installed in separately certified Ex d enclosure (Type FW manufactured by Govan AUS Ex 157 or equivalent)

**CONDITIONS OF CERTIFICATION:**

1. It is a condition of safe use that where the 'Comms' terminals on the computer board are utilised in conjunction with intrinsically safe circuits that the following 'Entity' parameters be taken into account:

Comms terminals	
$U_o$	= 8.5 V
$I_o$	= 0.4 A
$C_o$	= 32 $\mu$ F
$L_o$	= 2.4 mH

**DOCUMENTS:**

Document Number	Document Title	Revision	Date
000-040-00	Electronic Schematic Batchen Commander II & Concept 2000 Dispensers (Email Electronics) DJB 789	E	04/05/2006
001-304-01	Temperature Probe Vision RTD PT100 Class A Sensor 316 ST.ST Sheath, 4 Wire Assembly DJB 1119	A	07/01/2002
001-3003	MPP Remote Pulser RT86 Loading Diagram	2	02/10/1992
039-0080	Assembly Diagram Transformer RM10 Pump Comms Isolator	B	11/11/1982
070-110-01	Compliance Plate Australian Compliance Details	A	14/08/2001
821-702-01	Model = COM II-C2000 (TT) Two Hose DJB-3527 Electronic Schematic	B	26/10/2006

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Document Number	Document Title	Revision	Date
821-704-01	Model = COM II-C2000 (TT) Four Hose DJB-3528 Electronic Schematic	B	26/10/2006
<del>854-076-01</del>	<del>Concept 2000 (Email) Electrical Cable Assemblies</del> <i>(This drawing removed by Issue 2 of this certificate)</i>	<del>L</del>	<del>26/06/2007</del>
854-193-01	Commander II & Concept 2000 LPG Dispenser Exe - Junction Box Details	M	10/10/2001
<del>854-919-01</del>	<del>Dispenser Models CH-POD-MK3 Ribbon Cable</del> <del>Assemblies as shown</del> <i>(This drawing removed by Issue 2 of this certificate)</i>	<del>D</del>	<del>26/06/2007</del>
900-005-01	Typical Dispenser Hydraulic Schematic DJB 773	B	16/03/2000
900-015-01	Commander II Dispenser Delineation of Vapour Barriers	A	31/10/2006
900-016-01	Concept2000 Dispenser Delineation of Vapour Barriers	A	31/10/2006
119875-1	Remote Pulser	-	-
175927	Pulser RT86 Circuit Diagram	1	14/05/1991
196410	RTD Temperature Probe	1	16/06/1993
198135	LCD Display (Single CPL) Manufacturing Details Vision	3	25/04/1998
198135-3	Email Electronics LCD Board 198135-3	-	-
198143	LCD Display (Single CPL), Circuit Diagram Vision	2	20/04/1998
198150	PCBL LCD Single VN Vision	3	31/08/1998
198598-3	Email Electronics 198598-3	-	-
198598-3	Component Side 198598-3	-	-
198598-4	Comp Side 198598-4	-	-
198606-3	Email Electronics Vision Preset Keypad	-	-
198614 2 sheets.	Vision Computer – Circuit Diagram	4	21/06/2007
198622 2 sheets	Vision Preset Keypad, Circuit Diagram	2	12/05/1994
198630	PCBL Computer VN	6	31/08/1998
454199-1	Email Electronics 454199-1	-	-
454199-2	Vision – P/S & HV-Outputs Board E-mail Electronics 454199-2	-	-
454207	PCBL High Voltage LPG Vision	3	31/08/1998
454215	Vision - P/S & HV-Outputs LPG	2	06/03/1996
471763 3 sheets	Vision Computer LPG Circuit Diagram	2	22/06/2007
079384 Sheets 1, 9, 10, 38 of 60	T5 Register Electronics Service Manual	8	-

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Document Number	Document Title	Revision	Date
DSSG2000TopLevelBDiag	DSSG2000 Top Level Block Diagram	1	21/06/2005
DSSG2000TopLevelAssy-BOM	Bill of Materials For Item: DSSG2000	2	08/07/2005
DSSG2000CableInter-SCH	DSSG2000 Cable Interconnect	5	19/06/2005
DSSG2000CableInter-PCB 4 sheets.	DSSG2000 Cable Interconnect PCB	5	19/06/2005
DSSG2000CableSpacer-PCB 4 sheets.	DSSG2000 Cable Spacer PCB	5	19/06/2005
DSSG2000BarrierA-SCH	DSSG2000 Barrier Type A Schematic	3	18/06/2005
DSSG2000BarrierARev03-BOM	Sub-Assembly Bill of Materials For Item: DSSG2000 Barrier Type A Rev 03	4	08/07/2005
DSSG2000BarrierAPCB 4 sheets.	DSSG2000 Barrier Type A PCB	3	20/06/2005
DSSG2000Micro-SCH	DSSG2000 Micro	10	19/06/2005
DSSG2000MicroRev10-BOM 2 sheets.	Sub-Assembly Bill of Materials For Item: DSSG2000 Micro Rev 10	7	06/09/2006
DSSG2000Micro-PCB 4 sheets	DSSG2000 Micro PCB	10	20/06/2005
DSSG2000ElecData/end	DSSG2000 Electrical Characteristics	01	21/11/2006
DSSG2000ProbeHousing	DSSG2000 Probe Housing	6	20/06/2005
DSSG2000BaseBlockDWG	DSSG2000 Base Block	1	20/06/2005
DSSG2000InnerTubeDWG	DSSG2000 Inner Tube	1	20/06/2005
DSSG2000PlatesDWG	DSSG2000 Plates	1	20/06/2005
DSSG2000-Probe-Lugs-DWG	DSSG2000 Connecting Lugs	2	19/06/2005
DSSG2000TMDAssyDWG	DSSG2000 TMD Assy.	1	20/06/2005

### **Schedule of Variations**

#### **Variations Permitted by Issue 1**

This issue of the certificate deals with a variation in the placement of a fuse. This fuse was previously a 315 mA rating and placed in the ribbon interconnecting cable between the high voltage board and the computer board. It has now been designated as F2, with a rating of 300 mA, and placed in series with a current limiting resistor R124 on the computer board.

This variation has been assessed in test report 30681 and found in compliance.

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### Condition of Certification Relating to Issue 1

No changes to the previous conditions.

### Drawings Relating to Issue 1

#### Drawings Relating to Issue 1

Document No.	Document Title	Issue	Date
000-040-00	Electronic Schematic Batchen Commander II & Concept 2000 Dispensers (Email Electronics) DJB 789	F	27/02/2008
198614 2 Shts.	Vision Computer – Circuit Diagram	5	12/05/2008
198630	PCBL Computer VN	7	13/08/2008
471755	PCBL Computer LPG VN	2	19/08/2008
471763 3 Shts.	Vision Computer LPG Circuit Diagram	3	12/05/2008
<del>854-919-01</del>	<del>Dispenser Models CH POD MK3 Ribbon Cable Assemblies as shown</del> (This drawing removed by Issue 2 of this certificate)	<del>E</del>	<del>27/02/2008</del>

### Variations Permitted by Issue 2

- Removal of the drawings relating to the length of the interconnecting ribbon cables
- Revised label plate marking

These variations have been assessed in test report 32575 and found in compliance.

### Condition of Certification Relating to Issue 2

No changes to the previous conditions.

#### Drawings Relating to Issue 2

Document No.	Document Title	Issue	Date
070-110-01	Compliance Plate Australian Compliance Details	D	25/05/2010