

Certificate of Conformity

Ex EQUIPMENT

Certificate No.:	ANZEx 07.3052X	Current Issue:	3	Date of Issue:	2020-10-07
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Applicant: **D.J. Batchen Pty Limited**
2-6 Raglan Road
AUBURN NSW 2144
AUSTRALIA

Equipment: LPG Driveway Dispensers Models Commander II and Concept 2000

Type of Explosion Protection: Flameproof Enclosures "d", Increased Safety "e", Intrinsic Safety "ib", Encapsulation "m"

Explosion Protection Marking: Ex IIA T3 IP23 Type A

*This certificate is granted subject to the conditions as set out in Standards Australia/Standards New Zealand Miscellaneous Publication **MP87.1***

Signed for and on behalf of issuing body



Name & Position

Ujen Singh – Quality & Certification Manager

This certificate is not transferable and remains the property of the issuing body.

The status of this certificate can be confirmed through the database located at www.anzex.com.au

Certificate issued by:

TestSafe Australia
919 Londonderry Road, Londonderry NSW 2753 Australia

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Manufacturer: **D.J. Batchen Pty Limited**
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AUBURN NSW 2144
AUSTRALIA

**Additional
Manufacturing
Location(s):** None

STANDARDS:

The equipment 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 safety and performance requirements other than those expressly included in the Standards listed above.

This ANZEx certificate was issued on the basis of an existing Certificate of Conformity AUEx3239X-3 in accordance with Clause 3.3 of MP87.1:2008. Certificate AUEx3239X was first issued on 1995-12-19.

TEST & ASSESSMENT REPORTS:

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

Test Report Nos. & Issuing Bodies associated with all issues of the certificate: 13852, 14235, 29168, 30681, 32575, 36968, TestSafe Australia

Quality Assessment Report No. & Issuing Body: AU/MSQ/QAR16.0001/03, MSTC

File Reference: 2019/018366

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Schedule

Equipment Description:

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).

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 821-702-01 and 821-704-01

The T5 Electronics boards and pulsers are 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.

Model --T Dispenser electronics provided by Transponder Technologies

The equipment uses the following separately certified parts:

- T5 DUAL LACM-ACS PSU (081446), T5 Gilbarco FCN IFC (079009), T5 LACM-ASC PSU Expand (081454): IECEX MSC 14.0007U
- T5 Processor (080563), T5 DLP DISP FORM-B TBUS NBL (085995), T5 TTSTM Pulsar (086331), T5 Macnaught Pulsar IFC (092228), T5 TP+LPGMDP IFC (085547), T5 Temperature Probe IFC (081690): IECEX MSC 14.0008U
- Optional ZDM FBCGQ-1 Pulsar: IECEX MSC 20.0005
- Ex e Junction Box TBG011et: IECEX CQM 13.0016X with Terminal Blocks UK 3N: IECEX KEM 06.0034U, Terminal Blocks PE USLKG 5: IECEX KEM 06.0035U, Cable Glands CZ0220/e: IECEX CQM 08.0011X & Stopping Plug 8290/3: IECEX PTB 05.0013
- Or Ex e Junction Box Klippon K5: IECEX IBE 13.0002X with Terminal Blocks WDU 2.5 & WPE 2.5: IECEX ULD 14.0005U, Ex e Cable Gland: IECEX IMQ 13.0003X & Stopping Plug 8290/3: IECEX PTB 05.0013
- Or Ex d Junction box FC4/5: IECEX SIM 07.0001X with Terminal Blocks WDU 2.5: IECEX ULD 05.0008U, Cable Gland GWPM0 or GWPM1: ANZEx 07.3024 & Stopping Plug PA-D: IECEX SIR 12.0016X

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- Solenoid Valves EMXX-PAB 230V AC/10.5W: IECEX TSA 13.0020X & ANZEx 13.3020X or EMXX-PVX 230V AC/10.5W: IECEX SIR 06.0109X
- Ex d Emergency Stop switch FW1-3 or FW1-8: IECEX TSA 07.0005X with Cable Gland GWPM0: ANZEx 07.3024 & Stopping Plug PA-D: IECEX SIR 12.0016X

Variations Permitted by this Issue

- Update the T5 Electronics Boards, certificate no. AUS Ex 02.2561X-3 with IECEX MSC 14.0007U and IECEX MSC 14.0008U.
- Update the Ex e Junction Box, certificate no. AUS Ex 2187X with IECEX CQM 13.0016X or IECEX IBE 13.0002X
- Update the Ex d Junction Box, certificate no. AUS Ex 610X with IECEX SIM 07.0001X
- Update the solenoid valves, certificate no. AUS Ex 3032 with ANZEx 13.3020X, IECEX TSA 13.0020X or IECEX SIR 06.0109X.
- Update the Ex d emergency stop switch Type FW, certificate no. AUS Ex 157 with IECEX TSA 07.0005X.
- Add cable gland and stopping plug for the Ex d emergency stop switch and Ex d junction box.
- Add cable gland, stopping plug and terminal for the Ex e junction box.
- Add optional pulser, certificate no. IECEX MSC 20.0005
- Add optional emergency switch Eaton M22-DP-R located on the side of electronic compartment in safe area.
- Update schedule drawings for above changes.
- Remove the IS Comms terminals parameter in the condition of certification. (Email Electronics PCB (Model --E) had been obsolete). Add the input parameters.

These variations have been assessed in test report 36968 and found in compliance.

Specific Conditions of Use:

The following input parameters of the apparatus shall be taken into account during installation.

Mains Input Supply: $U_m = 240 \text{ Vac}$

Comms Input: $U_m = 20 \text{ V}$

Additional Information:

None

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Manufacturer's Documents associated with this Issue:

Document Number	Pages / Sheets	Document Title	Revision	Date
821-702-01	1	Model = COM II C2000 (TT) Two Hose Electronic Schematic	F	2020-08-06
821-704-01	1	Model = COM II C2000 (TT) Four Hose Electronic Schematic	F	2020-08-06
971-344-00	1	Commander II Dispenser Model CII – QTT Outline Drawing	A	2020-09-22
971-347-00	1	Commander II Dispenser Model CII – DCT Outline Drawing	A	2020-07-14
971-350-00	1	Commander II Dispenser Model CII – SCT Outline Drawing	A	2020-07-31
971-352-00	1	Commander II Dispenser Model CII – DTT Outline Drawing	A	2020-08-03
971-358-00	1	Concept 2000 Dispenser Model C2000 – SMT Outline Drawing	A	2020-08-02
971-368-00	1	Commander II Dispenser Model CII – DHT Outline Drawing	A	2020-08-03
971-371-00	1	Commander II Dispenser Model CII – SET Outline Drawing	A	2020-08-01
971-373-00	1	Commander II Dispenser Model CII – DET Outline Drawing	A	2020-08-01
971-374-00	1	Concept 2000 Dispenser Model C2000 – DMT Outline Drawing	A	2020-08-01
BRX-Q256386/2A	1	TBG011 Exe Terminal Enclosure Batchen	3	2020-08-28
32792Q	1	D.J Batchen Klippon K 131709 IECEx Junction Box General Arrangement	B	2020-08-27
854-151-01	1	Assy – Exd Junction Box COMM II & C2000 L.P.G Dispensers – DJB2423	D	2018-01-16
854-193-01	1	Commander II & Concept 2000 LPG Dispenser Ex e – Junction Box Details	O	2018-01-16
854-922-01	1	COM II & C2000 Individual Cable Assemblies Details Drawing as shown	S	2020-08-06
854-235-01	1	Transponder Electrical Cable Assemblies to suit MKIII & MKIV Models	C	2020-06-18
854-237-01	1	Common Electrical Cable Assemblies to suit MKIII & MKIV Models	B	2018-01-25

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History of Issues and Variations

Issue 0 dated 2007-11-22

Specific Conditions of Use Relating to Issue 0:

- It is a specific condition of 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 μ F
L_o	= 2.4 mH

Manufacturer's Documents associated with Issue 0:

Document Number	Pages / Sheets	Document Title	Revision	Date
000-040-00	1	Electronic Schematic Batchen Commander II & Concept 2000 Dispensers (Email Electronics) DJB 789	E	2006-05-04
001-304-01	1	Temperature Probe Vision RTD PT100 Class A Sensor 316 ST.ST Sheath, 4 Wire Assembly DJB 1119	A	2002-01-07
001-3003	1	MPP Remote Pulser RT86 Loading Diagram	2	1992-10-02
039-0080	1	Assembly Diagram Transformer RM10 Pump Comms Isolator	B	1982-11-11
070-110-01	1	Compliance Plate Australian Compliance Details	A	2001-08-14
821-702-01	1	Model = COM II-C2000 (TT) Two Hose DJB-3527 Electronic Schematic	B	2006-10-26
821-704-01	1	Model = COM II-C2000 (TT) Four Hose DJB-3528 Electronic Schematic	B	2006-10-26
854-076-01	1	Concept 2000 (Email) Electrical Cable Assemblies (This drawing removed by Issue 2 of this certificate)	E	2007-06-26
854-193-01	1	Commander II & Concept 2000 LPG Dispenser Exe - Junction Box Details	M	2001-10-10
854-919-01	1	Dispenser Models CII POD MK3 Ribbon Cable Assemblies as shown (This drawing removed by Issue 2 of this certificate)	D	2007-06-26
900-005-01	1	Typical Dispenser Hydraulic Schematic DJB 773	B	2000-03-16
900-015-01	1	Commander II Dispenser Delineation of Vapour Barriers	A	2006-10-31
900-016-01	1	Concept2000 Dispenser Delineation of Vapour Barriers	A	2006-10-31

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119875-1	1	Remote Pulser	-	-		
175927	1	Pulser RT86 Circuit Diagram	1	1991-05-14		
196410	1	RTD Temperature Probe	1	1993-06-16		
198135	1	LCD Display (Single CPL) Manufacturing Details Vision	3	1998-04-25		
198135-3	1	Email Electronics LCD Board 198135-3	-	-		
198143	1	LCD Display (Single CPL), Circuit Diagram Vision	2	1998-04-20		
198150	1	PCBL LCD Single VN Vision	3	1998-08-31		
198598-3	1	Email Electronics 198598-3	-	-		
198598-3	1	Component Side 198598-3	-	-		
198598-4	1	Comp Side 198598-4	-	-		
198606-3	1	Email Electronics Vision Preset Keypad	-	-		
198614	2	Vision Computer – Circuit Diagram	4	2007-06-21		
198622	2	Vision Preset Keypad, Circuit Diagram	2	1994-05-12		
198630	1	PCBL Computer VN	6	1998-08-31		
454199-1	1	Email Electronics 454199-1	-	-		
454199-2	1	Vision – P/S & HV-Outputs Board E-mail Electronics 454199-2	-	-		
454207	1	PCBL High Voltage LPG Vision	3	1998-08-31		
454215	1	Vision - P/S & HV-Outputs LPG	2	1996-03-06		
471763	3	Vision Computer LPG Circuit Diagram	2	2007-06-22		
079384	1,9,10, 38 of 60	T5 Register Electronics Service Manual	8	-		
DSSG2000TopLeve IBDiag	1	DSSG2000 Top Level Block Diagram	1	2005-06-21		
DSSG2000TopLeve IAssy-BOM	1	Bill of Materials For Item: DSSG2000	2	2005-07-08		
DSSG2000CableInt er-SCH	1	DSSG2000 Cable Interconnect	5	2005-06-19		
DSSG2000CableInt er-PCB	4	DSSG2000 Cable Interconnect PCB	5	2005-06-19		
DSSG2000CableSp acer-PCB	4	DSSG2000 Cable Spacer PCB	5	2005-06-19		
DSSG2000BarrierA- SCH	1	DSSG2000 Barrier Type A Schematic	3	2005-06-18		
DSSG2000BarrierA Rev03-BOM	1	Sub-Assembly Bill of Materials For Item: DSSG2000 Barrier Type A Rev 03	4	2005-07-08		
DSSG2000BarrierA PCB	4	DSSG2000 Barrier Type A PCB	3	2005-06-20		
DSSG2000Micro- SCH	1	DSSG2000 Micro	10	2005-06-19		

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DSSG2000MicroRev10-BOM	2	Sub-Assembly Bill of Materials For Item: DSSG2000 Micro Rev 10	7	2006-09-06
DSSG2000Micro-PCB	4	DSSG2000 Micro PCB	10	2005-06-20
DSSG2000ElecData/end	1	DSSG2000 Electrical Characteristics	01	2006-11-21
DSSG2000ProbeHousing	1	DSSG2000 Probe Housing	6	2005-06-20
DSSG2000BaseBlockDWG	1	DSSG2000 Base Block	1	2005-06-20
DSSG2000InnerTubeDWG	1	DSSG2000 Inner Tube	1	2005-06-20
DSSG2000PlatesDWG	1	DSSG2000 Plates	1	2005-06-20
DSSG2000-Probe-Lugs-DWG	1	DSSG2000 Connecting Lugs	2	2005-06-19
DSSG2000TMDAssemblyDWG	1	DSSG2000 TMD Assy.	1	2005-06-20

The product was assessed and satisfactory results were recorded in test reports 13852, 14235, 29168.

Issue 1 dated 2008-09-25

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.

Specific Conditions of Use Relating to Issue 1:

Same as in Issue 0.

Manufacturer's Documents associated with the Issue 1:

Document Number	Pages / Sheets	Document Title	Revision	Date
000-040-00	1	Electronic Schematic Batchen Commander II & Concept 2000 Dispensers (Email Electronics) DJB 789	F	2008-02-27
198614	2	Vision Computer – Circuit Diagram	5	2008-05-12
198630	1	PCBL Computer VN	7	2008-08-13

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471755	1	PCBL Computer LPG VN	2	2008-08-19
471763	3	Vision Computer LPG Circuit Diagram	3	2008-05-12
854-919-01	1	Dispenser Models CII POD MK3 Ribbon Cable Assemblies as shown (This drawing removed by Issue 2 of this certificate)	E	2008-02-27

Issue 2 dated 2010-09-07

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.

Specific Conditions of Use Relating to Issue 2:

Same as in Issue 0.

Manufacturer's Documents associated with the Issue 2:

Document Number	Pages / Sheets	Document Title	Revision	Date
070-110-01	1	Compliance Plate Australian Compliance Details	D	2010-05-25