

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

**ANZEx Scheme**

***Certificate of Conformity***

Certificate No.: ANZEx 10.3016X	Issue No.: 0	Date of Issue: 2010-07-27
	Issue No.: 3	Date of Issue: 2014-12-24

**Applicant:** Compac Industries Ltd  
52 Walls Road, Penrose  
Auckland 1061  
NEW ZEALAND

**Electrical Apparatus:** Laser Series Fuel Dispensers  
Cardking Laser Series Fuel Dispensers

**Type of Protection:** Ex ib d mb IP23 Type 1  
Cardking option: As above, except that it is a Type 3 Dispenser

**Marking Code:** Compac Industries Ltd  
LASER  
ANZEx 10.3016X – AS/NZS2229  
Ex ib d mb IIA T3 -20°C < Ta < +50 °C IP23 Type 1  
(when using SIDA motor YBB3371EI)  
Ex ib d mb IIA T3 -20°C < Ta < +40 °C IP23 Type 1  
(when using SIDA motor YBB3371)  
  
Cardking option: As above, except that it is a Type 3 Dispenser

**Manufacturer:** Compac Industries Ltd  
52 Walls Road, Penrose  
Auckland 1061  
NEW ZEALAND

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

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

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 <p><b>Test Safe</b> AUSTRALIA</p>	<p>Certificate issued by:</p> <p><b>TestSafe Australia</b> 919 Londonderry Road, Londonderry NSW 2753 Australia Phone: +61 2 4724 4900 Fax: +61 2 4724 4999 <a href="http://www.testsafe.com.au">http://www.testsafe.com.au</a></p>	 <p><b>JAS-ANZ</b></p> <p><a href="http://www.jas-anz.org/register">www.jas-anz.org/register</a></p>
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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/NZS 2229:2004 Fuel dispensing equipment for explosive atmospheres  
(Incorporating Amendment No. 1)

*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: 32434, 33273, 33611 and 35068 TestSafe  
Quality Assessment Report No. and Issuing Body: 05.004/2014, TestSafe

File Reference: 2014/011994



Ujen Singh

*Signed for and on behalf of issuing body*

Quality & Certification Manager

*Position*

24 December 2014

*Date of Issue*

**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 dispenser comprises of a sheet metal housing made of mild steel or stainless steel. It is 1600 mm in height, 840 mm in width, and 450 mm in depth. The window for the display is made of Lexan (polycarbonate). The hose is suspended from a flexible mast, with the length of the delivery hose set such that the hose does not touch the ground when the nozzle is inserted in its holster. Breakaway couplings are inserted in the hose between the suspension at the mast and the nozzle to prevent flow of fuel in case the hose or nozzle is pulled at greater than 1200N. The nozzle has a construction that prevents delivery of fuel if fallen to the ground, or if the nozzle detects overfilling of a tank.

Peripheral customer operated equipment includes optionally a magnetic card reader, preset keypad, CWIT radio interface.

The housing contains apparatus to measure and control the flow of fuel from the supply tank to the outlet nozzle. The dispensers with internal pumps are designed to be used on sites with underground tanks. Dispensers without internal pumps are designed for sites with submersible pumps in underground tanks or aboveground tanks with external pump.

This design of the dispenser does not depend on the use of vapour barriers, and hence is classified as a Type 1 Dispenser. Therefore all internal electrical components are Ex protected for a minimum of Zone 1.

The dispenser is meant for liquid fuels such as petrol, avgas, ethanol, diesel, JetA1 (kerosene), and their mixtures, and also to dispense LPG, depending on the model ordered.

#### **CONDITIONS OF CERTIFICATION:**

1. In Australia, non-LPG nozzles shall not be equipped with a latching device in case any of the following apply:
  - intended to be operated by the customer, or
  - used on dispensers with a preset facility, or
  - used on marine dispenser
2. Installation instructions available from the manufacturer must be followed.

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**DOCUMENTS:**

Drawing/Document No.:	Page/s:	Title:	Revision Level:	Date: (yyyy-mm-dd)
AP354	4	Laser Series Fuel Dispensers	-	2010-06-02
	24	Compliance Certification Laser Series Fuel Dispensers AS/NZS 2229:2004	-	-
AP - 033	1	Cardreader Mounting Plate	A	1990-05-29
AP-034	1	Cardreader Cover	A	1990-05-29
AP328	4	Wiring Looms – Single	H	2007-01-05
AP329	4	Wiring Looms – Dual	E	2007-01-05
AP331	1	Wiring Looms – Meter	C	2004-07-08
AP332	4	Wiring Looms – 4 Hose & 2 Hose (Lane Specific)	C	2006-07-21
AP334	1&2 of 4	Wiring Looms – Preset Loop	B	2004-10-27
AP345	1	Hose Assemblies and Delivery Systems for Master/Laser Fuel Dispensers	B	2009-12-14
AP346	1	High Mast High Mast Screw	A	2009-06-12
AP348	1	Miscellaneous Labels used on Compac Fuel Dispensers	B	2010-05-25
AP-355	1	Electrical Label for Laser	B	2010-06-23
ASM0011B	1	Electronic Components Laser V2 display mounting assembly	B	2010-06-21
ASM0012A	1 of 8	Laser V2 Liquid Fuel & LPG Approval Assemblies Laser Sheetmetal	A	2010-05-20
ASM0012A	2 of 8	Laser V2 Liquid Fuel & LPG Approval Assemblies Laser Pump Internals	A	2010-05-20
ASM0012A	3 of 8	Laser V2 Liquid Fuel & LPG Approval Assemblies Laser Dispenser Internals	A	2010-05-20

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ASM0012A	4 of 8	Laser V2 Liquid Fuel & LPG Approval Assemblies Laser Dispenser 160 Internals	A	2010-05-20
ASM0012A	5 of 8	Laser V2 Liquid Fuel & LPG Approval Assemblies Laser LPG Internals	A	2010-05-20
ASM0012A	6 of 8	Laser V2 Liquid Fuel & LPG Approval Assemblies Liquidfuel Hose Assembly1		2010-05-20
ASM0012A	7 of 8	Laser V2 Liquid Fuel & LPG Approval Assemblies Liquidfuel Hose Assembly2	B	2010-05-20
ASM0012A	8 of 8	Laser V2 Liquid Fuel & LPG Approval Assemblies LPG Hose Assembly	A	2010-05-20
ASM0013B	1 of 7	Module Assemblies Dispenser 40 or 80 lpm	A	2010-06-21
ASM0013B	2 of 7	Module Assemblies Dispenser 160 lpm	A	2010-06-21
ASM0013B	3 of 7	Module Assemblies Pump 40 or 80 lpm	A	2010-06-21
ASM0013B	4 of 7	Module Assemblies Pump Duo/Quad 40 or 80 lpm	A	2010-06-21
ASM0013B	5 of 7	Module Assemblies Pump 160 lpm	A	2010-06-21
ASM0013B	6 of 7	Module Assemblies LPG Module-Single	A	2010-06-21
ASM0013B	7 of 7	Module Assemblies LPG Module-Dual	A	2010-06-21
ASM0014A	1 of 3	Laser V2 Liquid Fuel & LPG Approval Assemblies Dispenser – Wiring and C4000	A	2010-05-20
ASM0014A	2 of 3	Laser V2 Liquid Fuel & LPG Approval Assemblies Pump – Wiring and C4000	A	2010-05-20

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ASM0014A	3 of 3	Laser V2 Liquid Fuel & LPG Approval Assemblies LPG – Wiring and C4000	A	2010-05-20
MP-125	Sht 6	Universal Highmast Hose Clamp Rubber Insert	B	1995-05-10
MP125-7	Sht 7	Standard Straight Inverted Himast Bracket Details	A	1996-06-21
MP-125	Sht 8	Standard Straight and Inverted Himast Bracket Detail of Bracket for Spring Himast	B	1997-07-22
PDM0008A	1	Diesel Protection Mechanism Diesel Protection Mechanism For ME50 Nozzle Holder	A	-
PDM0107A	1	Laser Side Panels Lockable Middle Top Cover	A	2007-04-30
PDM0108C	1	Laser Frame Parts Laser Middle Side Cover Secure	B	2009-04-21
PDM0141D	1	Laser Brackets and Rails Laser C4000 Processor Base	D	2009-06-10
PDM0288A	1	Laser Brackets and Rails Laser Side Mount	A	2008-07-24
PDM0342A	1	Laser Frame Parts Laser Middle Side Cover	A	2009-04-21
PDM0348A	1	Master Himast Bracket Gasket	A	2009-05-15
PDM0349A	1	Master ME-50 Nozzle Holder Gasket	A	2009-05-19
PDM0352A	1	Master Cardreader Gasket	A	2009-05-29
PDM0355A	1	C4000 Brackets and Boxes C4000 Processor Lid	C	2009-06-19
PDM0380C	1 of 3	Laser V2 Side Panels Blank Side Panel V2 – Liquid Fuel	B	2010-04-13
PDM0380C	2 of 3	Laser V2 Side Panels Blank Side Panel V2 – Liquid Fuel	B	2010-04-13
PDM0380C	3 of 3	Laser V2 Side Panels Cut-out Detail	B	2010-04-13

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PDM0396A	1	Himast Himast tube with Swivel Head Cap	A	2009-10-30
PDM0399B	1	Laser Brackets and Rails Base Rail	B	2010-01-27
PDM0403D	1	Laser V2 Brackets and Rails Door Top Rail	D	2010-06-02
PDM0408A	1	Laser Brackets and Rails Laser C4000 FP Box – Vertical Mount	A	2010-01-19
PDM0411B	1	Laser Doors Door	B	2010-02-08
PDM0420A	1	Nozzles and Holsters LPG Nozzle holder gasket	A	2010-03-26
PDM0421A	1 of 2	Laser V2 Side Panels Blank Side Panel V2	C	2010-04-13
PDM0421A	2 of 2	Laser V2 Side Panels Cut-out Detail for LPG	B	2010-04-13
PDM0424A	1	Laser V2 Cabinets Laser Cabinet Lid	A	2010-04-13
PDM0425B	1	Laser V2 Cabinets Cabinet Base Plate	B	2010-05-19
PDM0426B	1	Laser V2 Cabinets Cabinet Himast Bracket	B	2010-04-21
PDM0428B	1 of 5	Laser V2 Cabinets Stiffening Rail Weld Position	A	2010-06-10
PDM0428B	2 of 5	Laser V2 Cabinets Laser Cabinet V2 Blank	A	2010-06-10
PDM0428B	3 of 5	Laser V2 Cabinets Stiffening Rail	B	2010-06-10
PDM0428B	4 of 5	Laser V2 Cabinets Stiffening Rail with drain slots	A	2010-06-10
PDM0428B	5 of 5	Laser V2 Cabinets Cabinets display cutouts	A	2010-06-10
PDM0444B	1	Laser V2 Cabinet Perspex Laser Cabinet V2 Fasca Lexan SGL	B	2010-06-10
PDM0445B	1	Laser V2 Cabinet Perspex Laser Cabinet V2 Fasca Lexan Dual	B	2010-06-10

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PDM0455A	1 of 2	Himast Himast Hose Clamp (Tapped Half)	A	2010-05-21
PDM0455A	2 of 2	Himast Himast Hose Clamp (Drilled Half)	A	2010-05-21
SW006	Sht 4	Master Interior Sheetmetal Pump Mount	F	2009-05-15
SW012	Sht 2	Laser Sheetmetal Front Mounting Rail	D	2006-03-23
SW032	Sht 8	Hydraulic Modules 160S Pipe Support Rail	C	2005-11-08
SW032	Sht 9	Hydraulic Modules Standard Outlet Cover	B	2005-01-10
SW032	Sht 10	Hydraulic Modules Standard Outlet Gasket	B	2009-06-17
SW032	Sht 11	Hydraulic Modules Filter Support Bracket	C	2003-08-08
SW032	Sht 18	Hydraulic Modules Dispenser Module Bracket	A	2004-08-16
SW051	Sht 2	C4000 Mounting Sheetmetal Laser FP Box Mount	A	2002-04-18
SW076	Sht 3	CWID Reader CWID Face	B	2004-03-08
SW076	Sht 5	CWID Reader CWID Gasket	A	2004-03-08
SW077	Sht 1	Himast Himast Spring	A	2004-11-01
SW077	Sht 2	Himast Himast Top Spring	A	2004-07-19
SW077	Sht 3	Himast Himast Hi-Flow Spring	A	2004-11-19
SW077	Sht 4	Himast Himast Tensioner	B	2009-10-13

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**Schedule of Variations**

**Variations Permitted by Issue 1:**

Compac have now introduced the Cardking option, which is a Type 3 Dispenser. A horizontal vapour barrier has been added, with several non-Ex electrical equipment (Printer, Battery, Router, Modem, Forecourt Controller, Card and RFID Reader, USB Interface) added to Dispenser head above the vapour barrier. An Ex certified flameproof junction box has also been added below the vapour barrier to allow termination of external cables. The above changes have been considered in compliance report 33273.

An optional XC solenoid coil has been added to the Dispenser. This is a separately certified equipment (IECEX CQM 10.0027X).

**Condition of Certification Relating to Issue 1:**

No changes from original issue.

**Drawings Relating to Issue 1:**

In addition to the drawings listed in Issue 0:

Drawing/Document No.:	Page/s:	Title:	Revision Level:	Date: (yyyy-mm-dd)
AP354-C	5	Laser Series Fuel Dispensers	C	2011-11-09
AP-355	1&2 of 3	Electrical Label for Laser	E	2011-11-10
AP-355	3 of 3	Electrical Label for Laser (Cardking)	E	2011-11-10
AP361	1	Laser Series Fuel Dispenser Electrical Block Diagram	A	2011-11-10
MAD0012D	1 of 8	Laser V2 Cardking Laser V2 Cardking – Cabinet	E	2011-11-09
MAD0012D	2 of 8	Laser V2 Cardking Cabinet Sheetmetal Parts	E	2011-11-09
MAD0012D	3 of 8	Laser V2 Cardking Vapour Barrier	E	2011-11-09
MAD0012D	4 of 8	Laser V2 Cardking IP23 sealing	E	2011-11-09
MAD0012D	5 of 8	Laser V2 Cardking Peripheral Options	E	2011-11-09

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MAD0012D	6 of 8	Laser V2 Cardking Cardking Cabinet Assembly	E	2011-11-09
MAD0012D	7 of 8	Laser V2 Cardking Ventilation	E	2011-11-09
MAD0012D	8 of 8	Laser V2 Cardking I.S. Isolation and Earthing	E	2011-11-09
PDM0123B	1	Eftpos DCA EDCA Battery Top Bracket	C	2008-12-18
PDM0141G	1	Laser Brackets and Rails Laser C4000 Processor Base	G	2011-01-21
PDM0380D	1&2 of 3	Laser V2 Side Panels Blank Side Panel V2 – Liquid Fuel	B	2011-09-26
PDM0380D	3 of 3	Laser V2 Side Panels Cut-out Detail	C	2011-09-26
PDM0408B	1	Laser Brackets and Rails Laser C4000 FP Box – Vertical Mount	B	2011-07-26
PDM0425C	1	Laser V2 Cabinets Cabinet Base Plate	C	2011-09-02
PDM0428E	1 of 6	Laser V2 Cabinets Stiffening Rail Weld Position	A	2011-09-26
PDM0428E	2 of 6	Laser V2 Cabinets Laser Cabinet V2 Blank	A	2011-09-26
PDM0428E	3 of 6	Laser V2 Cabinets Stiffening Rail	B	2011-09-26
PDM0428E	4 of 6	Laser V2 Cabinets Stiffening Rail with drain slots	B	2011-09-26
PDM0428E	5 of 6	Laser V2 Cabinets Cabinets display cutouts	B	2011-09-26
PDM0428E	6 of 6	Laser V2 Cabinets Cabinets display cutouts	B	2011-09-26
PDM0444C	1	Laser V2 Cabinet Perspex Laser Cabinet V2 Fasca Lexan SGL	C	2010-07-13
PDM0487C	1	Himast Himast Hose Clamp Rubber Insert	C	2010-09-17
PDM0553A	1	C4000 Brackets and Boxes Laser FP Box Mount	A	2010-12-07

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PDM0660D	1 of 2	Laser V2 Cardking Laser Cardking Vapour Barrier	D	2011-09-27
PDM0660D	2 of 2	Laser V2 Cardking Splash Guard	A	2011-09-27
PDM0661D	1 of 8	Laser V2 Cardking C/King Cabinet – Sgle without USB	D	2011-09-27
PDM0661D	2 of 8	Laser V2 Cardking LR2 Cardking Cabinet – Sgle w USB	A	2011-09-27
PDM0661D	3 of 8	Laser V2 Cardking C/King Cabinet Frame without USB	D	2011-09-27
PDM0661D	4 of 8	Laser V2 Cardking Carking Cabinet Frame with USB	A	2011-09-27
PDM0661D	5 of 8	Laser V2 Cardking With or Without USB	D	2011-09-27
PDM0661D	6 of 8	Laser V2 Cardking Cardking stiffening rail	A	2011-09-27
PDM0661D	7 of 8	Laser V2 Cardking Cardking Printer Gutter	B	2011-09-27
PDM0661D	8 of 8	Laser V2 Cardking Cardking Printer Side Rails R&L	B	2011-09-27
PDM0662B	1 of 3	Laser V2 Cardking Cardking Printer Door	B	2011-07-12
PDM0662B	2 of 3	Laser V2 Cardking Cardking Printer Door	A	2011-07-12
PDM0662B	3 of 3	Laser V2 Cardking Rain Channel	A	2011-07-12
PDM0663A	1	Laser V2 Cardking Cardking Reader Wedge – HID	B	2011-11-01
PDM0664B	1	Laser V2 Cardking Cardking Reader Wedge – CR	B	2011-11-01
PDM0665B	1	Laser V2 Cardking Battery Support Bracket	B	2011-08-08
PDM0666B	1	Laser V2 Cardking Battery Base Bracket	B	2011-08-10
PDM0667A	1	Laser V2 Cardking UPS PCB Bracket	A	2011-07-05

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PDM0668A	1	Laser V2 Cardking Bottom Gear Plate	A	2011-07-05
PDM0669A	1	Laser V2 Cardking Power Supply Gear Plate	A	2011-07-11
PDM0670A	1	Laser V2 Cardking COM-FMS GearPlate	A	2011-07-06
PDM0671A	1	Laser V2 Cardking COL Gear Plate	A	2011-07-11
PDM0672C	1	Laser V2 Cardking Display Top Cover	C	2011-08-04
PDM0673B	1	Laser V2 Cardking Display Bottom Cover #1	B	2011-08-04
PDM0674B	1	Laser V2 Cardking Display Bottom Cover #2	B	2011-08-04
PDM0675A	1	Laser V2 Cardking ADSL Clamp Bracket	A	2011-07-06
PDM0676A	1	Laser V2 Cardking Printer Door Stop	A	2011-07-11
PDM0677A	1	Laser V2 Cardking Power Supply Terminal Cover	A	2011-07-06
PDM0678A	1	Laser V2 Cardking Reader Wedge Gasket	A	2011-07-06
PDM0679A	1	Laser V2 Cabinet Perspex Cardking GD Display Lexan	A	2011-07-06
PDM0687B	1	Laser V2 Cardking Internal Cabinet Rain Barrier	B	2011-08-05
PDM0688B	1	Laser V2 Cardking Internal Cabinet Rain Barrier Gasket	B	2011-08-05
PDM0689A	1	Laser V2 Cardking Secondary Printer Door Stop	A	2011-08-16
PDM0690A	1	Laser V2 Cardking COL Gear Plate Brace	A	2011-08-05
PDM0719A	1 of 7	Laser V2 Cardking C/K Cab – Sgle w USB: No Prter	A	2011-09-27
PDM0719A	2 of 7	Laser V2 Cardking C/K Cab – Sgle w/out USB: No Prter	A	2011-09-27

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Drawing/Document No.:	Page/s:	Title:	Revision Level:	Date: (yyyy-mm-dd)
PDM0719A	3 of 7	Laser V2 Cardking C/K Cab Frame with USB: No Prter	A	2011-09-27
PDM0719A	4 of 7	Laser V2 Cardking C/K Cab Frame w/out USB: No Prter	A	2011-09-27
PDM0719A	5 of 7	Laser V2 Cardking With or without USB	A	2011-09-27
PDM0719A	6 of 7	Laser V2 Cardking Cardking stiffening rail	A	2011-09-27
PDM0719A	7 of 7	Laser V2 Cardking Cardking Printer Gutter	B	2011-09-27

**Variations Permitted by Issue 2:**

The changes to the Fuel Dispenser allowed are:

- Use of an alternate motor SIDA YBB3731 for driving the fuel pump
- Use of an junction box CJB1 when using the above motor
- XU01 Solenoid Coil has been removed (it is now obsolete)
- Minor changes to the frame components

**Condition of Certification Relating to Issue 2:**

No changes from previous issues of this certificate.

**Drawings Relating to Issue 2:**

Drawing/Document No.:	Page/s:	Title:	Revision Level:	Date: (yyyy-mm-dd)
AP354-D	5	Laser Series Fuel Dispensers	D	2012-03-16
AP-355	1&2 of 3	Electrical Label for Laser	F	2012-02-13
AP-355	3 of 3	Electrical Label for Laser (Cardking)	F	2012-02-13
AP361	1	Laser Series Fuel Dispenser Electrical Block Diagram	B	2012-02-14
MAD0012E	1 of 8	Laser V2 Cardking Laser V2 Cardking – Cabinet	F	2011-11-29
MAD0012E	2 of 8	Laser V2 Cardking Cabinet Sheetmetal Parts	F	2011-11-29

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MAD0012E	3 of 8	Laser V2 Cardking Vapour Barrier	F	2011-11-29
MAD0012E	4 of 8	Laser V2 Cardking IP23 sealing	F	2011-11-29
MAD0012E	5 of 8	Laser V2 Cardking Peripheral Options	F	2011-11-29
MAD0012E	6 of 8	Laser V2 Cardking Cardking Cabinet Assembly	F	2011-11-29
MAD0012E	7 of 8	Laser V2 Cardking Ventilation	F	2011-11-29
MAD0012E	8 of 8	Laser V2 Cardking I.S. Isolation and Earthing	F	2011-11-29
PDM0515B	1 of 5	Himast Die-Cast Top Clamp P-HMAST-DCTCL	B	2010-10-04
PDM0515B	2 of 5	Himast Die-Cast Top Clamp (Tapped Half) P-HMAST-DCTCL	B	2010-10-04
PDM0515B	3 of 5	Himast Die-Cast Top Clamp (Drilled Half) P-HMAST-DCTCL	B	2010-10-04
PDM0515B	4 of 5	Himast Die-Cast Top Clamp (Tapped Half) LPG Version DL-HMAST-DCTCL	B	2010-10-04
PDM0515B	5 of 5	Himast Die-Cast Top Clamp (Drilled Half) LPG Version DL-HMAST-DCTCL	B	2010-10-04
PDM0661F	1 of 8	Laser V2 Cardking C/King Cabinet – Sgle without USB P-FRME-LR2-CKCB	F	2012-03-16
PDM0661F	2 of 8	Laser V2 Cardking LR2 Cardking Cabinet – Sgle w USB P-FRME-LR2-CKCBU	A	2012-03-16

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PDM0661F	3 of 8	Laser V2 Cardking C/King Cabinet Frame without USB	E	2012-03-16
PDM0661F	4 of 8	Laser V2 Cardking Carking Cabinet Frame with USB	A	2012-03-16
PDM0661F	5 of 8	Laser V2 Cardking With or Without USB Weld stud detail	E	2012-03-16
PDM0661F	6 of 8	Laser V2 Cardking Cardking stiffening rail	B	2012-03-16
PDM0661F	7 of 8	Laser V2 Cardking Cardking Printer Gutter	B	2012-03-16
PDM0661F	8 of 8	Laser V2 Cardking Cardking Printer Side Rails R&L	B	2012-03-16
PDM0687C	1	Laser V2 Cardking Internal Cabinet Rain Barrier P-FRME-LR2-CKCRB	C	2011-11-16

**Variations Permitted by Issue 3:**

The changes to the Fuel Dispenser allowed are:

- Use of an alternate motor SIDA YBB3371EI for driving the fuel pump
- Change apparatus maximum ambient temperature from 55 °C to 50 °C to incorporate the new motor SIDA YBB3371EI.
- Removed Motor – Rael Model V90ML / V90MC (Certificate expiry)
- Use of an alternate C4000 Power Supply MK II
- Use of an alternate C4000 Control Unit MK II (included a new V50 meter, to be used with MK II series only)
- Use of an alternate Solenoid Coil Compac S2-350
- Add new dispenser model L400S series, LL160SQ series and LA30 series (Adblue Diesel models)
- Use of an optional Splash Guards for Marine versions
- Minor changes to the frame components and certified drawings

**Condition of Certification Relating to Issue 3:**

No changes from previous issues of this certificate.

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**Drawings Relating to Issue 3:**

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AP354-G	9	Laser Series Fuel Dispensers	G	2014-12-12
AP-355	3	Electrical Label for Laser	G	2014-08-04
AP361	1	Laser Series Fuel Dispenser Electrical Block Diagram	E	2014-12-08
AP369	4	Wiring Looms – Master / Laser Single or Dual	B	2013-05-10
ASM0012D	1 of 10	Laser V2 Liquid Fuel & LPG Approval Assemblies Laser Sheetmetal	A	2014-12-11
ASM0012D	2 of 10	Laser V2 Liquid Fuel & LPG Approval Assemblies Laser Pump Internals	A	2014-12-11
ASM0012D	3 of 10	Laser V2 Liquid Fuel & LPG Approval Assemblies Laser Dispenser Internals	A	2014-12-11
ASM0012D	4 of 10	Laser V2 Liquid Fuel & LPG Approval Assemblies Laser Dispenser 160 Internals	A	2014-12-11
ASM0012D	5 of 10	Laser V2 Liquid Fuel & LPG Approval Assemblies Laser LPG Internals	A	2014-12-11
ASM0012D	6 of 10	Laser V2 Liquid Fuel & LPG Approval Assemblies Liquidfuel Hose Assembly1	-	2014-12-11
ASM0012D	7 of 10	Laser V2 Liquid Fuel & LPG Approval Assemblies Liquidfuel Hose Assembly2	B	2014-12-11
ASM0012D	8 of 10	Laser V2 Liquid Fuel & LPG Approval Assemblies LPG Hose Assembly	A	2014-12-11
ASM0012D	9 of 10	Laser V2 Liquid Fuel & LPG Approval Assemblies Laser L400S Internals	B	2014-12-11
ASM0012D	10 of 10	Laser V2 Liquid Fuel & LPG Approval Assemblies Laser LL160SQ Internals	B	2014-12-11
ASM0013E	1 of 12	Module Assemblies Dispenser 40 or 80 lpm	A	2014-11-12

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ASM0013E	2 of 12	Module Assemblies Dispensor 160 lpm	A	2014-11-12
ASM0013E	3 of 12	Module Assemblies Pump 40 or 80 lpm	C	2014-11-12
ASM0013E	4 of 12	Module Assemblies Pump Duo/Quad 40 or 80 lpm	C	2014-11-12
ASM0013E	5 of 12	Module Assemblies Pump 160 lpm	C	2014-11-12
ASM0013E	6 of 12	Module Assemblies LPG Module-Single	A	2014-11-12
ASM0013E	7 of 12	Module Assemblies LPG Module-Dual	A	2014-11-12
ASM0013E	8 of 12	Module Assemblies Dispenser 400 LPM (Aviation)	A	2014-11-12
ASM0013E	9 of 12	Module Assemblies Dispenser 400 LPM (Standard)	A	2014-11-12
ASM0013E	10 of 12	Module Assemblies MF LPG Module-Single	A	2014-11-12
ASM0013E	11 of 12	Module Assemblies MF LPG Module Dual	A	2014-11-12
ASM0013E	12 of 12	Module Assemblies Adblue Module-Single	A	2014-11-12
ASM0017A	1 of 3	Himast Assembly with Die-Cast Clamps	A	2013-12-17
ASM0017A	2 of 3	Himast Assembly with Stiffening Spring	A	2013-12-17
ASM0017A	3 of 3	Himast High Flow Stiffening	A	2013-12-17
ASM0037A	1 of 1	Laser & Master Pumps & Dispensers Marine Splash Guard Mounting	A	2014-12-08
PDM0008B	1 of 1	Diesel Nozzle Protector Diesel Protection Mechanism For ME50 Nozzle Holder	B	2013-07-29
PDM0380H	1 of 3	Laser V2 Side Panels Blank Side Panel V2 – Liquid Fuel	C	2014-08-01
PDM0380H	2 of 3	Laser V2 Side Panels Blank Side Panel V2 – Liquid Fuel	C	2014-08-01

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PDM0380H	3 of 3	Laser V2 Side Panels Cut-out Detail	F	2014-08-01
PDM0399C	1 of 1	Laser Brackets and Rails Base Rail	D	2013-12-09
PDM0408C	1 of 1	Laser Brackets and Rails Laser C4000 FP Box – Vertical Mount	C	2012-04-18
PDM0411D	1 of 2	Laser Doors Door	C	2013-06-06
PDM0411D	2 of 2	Laser Doors Custom Door Tang	A	2013-06-06
PDM0418B	1 of 2	Himast Himast Spring – unground	A	2010-09-17
PDM0418B	2 of 2	Himast Left thread – stiffing spring	A	2010-09-17
PDM0428F	1 of 6	Laser V2 Cabinets Stiffening Rail Weld Position	A	2013-02-15
PDM0428F	2 of 6	Laser V2 Cabinets Laser Cabinet V2 Blank	A	2013-02-15
PDM0428F	3 of 6	Laser V2 Cabinets Stiffening Rail	B	2013-02-15
PDM0428F	4 of 6	Laser V2 Cabinets Stiffening Rail with drain slots	B	2013-02-15
PDM0428F	5 of 6	Laser V2 Cabinets Cabinet display cutouts	C	2013-02-15
PDM0428F	6 of 6	Laser V2 Cabinets Cabinet display cutouts	C	2013-02-15
PDM0444D	1 of 1	Laser V2 Cabinet Perspex Lsr Cabinet V2 Fas Lexan SGL-MK2	D	2012-09-11
PDM0445C	1 of 1	Laser V2 Cabinet Perspex Lsr Cabinet V2 Fas Lxn Dual – MK2	D	2012-09-11
PDM0514B	1 of 3	Himast Bottom Spring Clamp	A	2014-07-08

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PDM0514B	2 of 3	Himast Himast Spring Clamp Mount	A	2014-07-08
PDM0514B	3 of 3	Himast Himast Spring Clamp Cap	A	2014-07-08
PDM0559A	1 of 1	Laser Brackets and Rails Front Mounting Rail	A	2010-12-14
PDM0631C	1 of 1	Master P Brackets Pump Mount	C	2014-04-14
PDM0671C	1 of 1	Laser V2 Cardking COL Gear Plate	C	2014-06-09
PDM0679B	1 of 1	Laser V2 Cabinet Perspex Cardking GD Display Lexan	B	2014-01-31
PDM0719A	6 of 7	Laser V2 Cardking Cardking stiffening rail	B	2011-11-28
PDM0932A	1 of 1	Laser V2 Brackets and Rails L400S Front Mounting Rail	A	2014-08-01
PDM0933A	1 of 1	Laser V2 Brackets and Rails L400S Accumulator Mounting Brkt	A	2013-06-21
PDM0934A	1 of 1	Laser V2 Brackets and Rails L400S Avi Outlet Support Brkt	A	2014-08-01
PDM0936B	1 of 1	Hydraulics L400S Avi Y-Strainer to Meter M/fold	A	2014-07-18
PDM1026A	1 of 1	Himast Himast Hi-Flow Spring – 220mm	A	2013-11-21
PDM1176A	1 of 1	CNG Laser V2 Frame Parts L400S Splash Guard	A	2014-05-22
PDM1180B	1 of 1	Master D Brackets 160S Pipe Support Rail	B	2014-06-05

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PDM1181A	1 of 1	Laser V2 Brackets and Rails L400S Outlet Support Bracket	A	2014-05-22
PDM1187A	1 of 1	Laser V2 Frame Parts LL80S Splash Guard	A	2014-06-04
PDM1188A	1 of 1	Laser V2 Frame Parts LL160S Splash Guard	A	2014-06-04
PDM1189A	1 of 1	Laser V2 Frame Parts Laser Marine Splash Guard Cover	A	2014-06-04
PDM1199A	1 of 1	Laser Brackets and Rails Marine Laser C4000 Processor Base	A	2014-07-17
PDM1200A	1 of 1	CNG Laser V2 Frame Parts L160P Splash Guard	A	2014-07-18
SW079	4 of 4	Marine Units Splash Guard Pump Inlet Cover	B	2009-06-18

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