

Certification of

EXPLOSION PROTECTED ELECTRICAL EQUIPMENT

Administered by: Standards Australia Quality Assurance Services

Certificate of Conformity

Certificate No.: **Ex 2451X** Issue 0: **7 September 1999** Original Issue

Date of expiry: **7 September 2009**

Certificate Holder: **Compac Industries Limited**
52 Walls Road
PENROSE AUCKLAND
NEW ZEALAND

Electrical Equipment: **MASTER and PREMIER Series of Fuel Dispensers**
(See Tables 1 and 2 for models)

Type of Protection and Marking Code: **Ex d m e ia ib (ib) IIA T3 IP23 Type A**
AUS Ex 2451X

Manufactured by: **Compac Industries Limited**

Issued by:



Engineering, Testing and Certification Centre

2 Smith Street, REDBANK, QLD 4301, Australia
Postal Address: PO Box 467, GOODNA, QLD 4300, Australia
Phone: (07) 3810 6381 Fax: +617 3810 6366



STANDARDS AUSTRALIA



Standards Australia Quality Assurance Services Pty Limited A.C.N. 050 611 642

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This certificate is granted subject to the conditions as set out in Standards Australia Miscellaneous Publication MP 69 and the Procedures (Doc Q7134) of the scheme.

The electrical equipment and any acceptable variation to it specified in the schedule to this certificate and the identified documents, was found to comply with the following standards:

- AS 2229.1 - 1982** **Electrical equipment for explosive atmospheres - Electrical systems of dispensing equipment - Flammable liquid dispensing equipment**
- AS 2229.2 - 1988** **Electrical equipment for explosive atmospheres - Electrical systems of dispensing equipment - Liquefied petroleum gas dispensing equipment**

This certificate does not ensure compliance with electrical safety and performance requirements other than those included in the standards listed above.

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

Test Report No: **E99/0034**
File Reference: **99/0082** **(P80819)**



Signed for and on behalf of issuing authority

Senior Engineer - Certification
Engineering, Testing and Certification Centre
Position

7 September 1999
Date of issue

This certificate and schedule may not be reproduced except in full.

This certificate is not transferable and remains the property of Standards Australia Quality Assurance Services and must be returned in the event of its being revoked or not renewed.

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Quality System Certified to
AS/NZS ISO 9001
Certification No 6039

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Schedule

Equipment:

The Master and Premier series of fuel dispensers covered by this certificate are listed in Tables 1 and 2. The housing for the equipment is constructed from sheet metal (mild steel or stainless steel). Two models in each of the Master and Premier series are designed for dispensing liquefied petroleum gas and the remainder are designed for dispensing flammable liquid. The equipment is provided with various options covering displays, preset facilities, a card reader and a PIN pad.

The internal equipment comprises the following:

- **C4000 Fuel Dispenser Control Unit:** A separately certified microprocessor-based device which controls all the electrical functions associated with the fuel dispenser.
- **Separately certified flameproof (Ex d) enclosure:** This enclosure houses specified equipment for the C4000 Fuel Dispenser Control Unit.
- **Separately certified motor (flammable liquid units only).**
Note: For dispenser units, the motor is external to the dispensing enclosure.
- **Separately certified solenoids.**

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Addendum to Certificate No.....: **Ex 2451X**

Issue: **0**

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Table 1. Range of MASTER Series Fuel Dispensers

Model	Description	Fluid Dispensed
M40S	Single inlet, single hose, 40 lpm, dispenser	Liquid
M80S	Single inlet, single hose, 80 lpm, dispenser	Liquid
MM40S	Dual inlet, dual hose, 40 lpm each, both dispensers	Liquid
MM80S	Dual inlet, dual hose, 80 lpm each, both dispensers	Liquid
MM40/80S	Dual inlet, dual hose, one 40 lpm & one 80 lpm, both dispensers	Liquid
M160S	Single inlet, single hose, 160 lpm, dispenser	Liquid
MM160S	Dual inlet, dual hose, 160 lpm each, both dispensers	Liquid
MM160/40S	Dual inlet, dual hose, one 160 lpm & one 40 lpm, both dispensers	Liquid
MM160/80S	Dual inlet, dual hose, one 160 lpm & one 80 lpm, both dispensers	Liquid
M400S	Single inlet, single hose, 400 lpm, dispenser	Liquid
M40P	Single inlet, single hose, 40 lpm, pump	Liquid
M80P	Single inlet, single hose, 80 lpm, pump	Liquid
MM40P	Dual inlet, dual hose, 40 lpm each, both pumps	Liquid
MM80P	Dual inlet, dual hose, 80 lpm each, both pumps	Liquid
M160P	Single inlet, single hose, 160 lpm, pump	Liquid
MLPG	Single inlet, single hose, LPG dispenser	LPG
MLPGD	Single inlet, dual hose, both LPG dispensers	LPG

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Table 2. Range of PREMIER Series Fuel Dispensers

Model	Description	Fluid Dispensed
P40S	Single inlet, single hose, 40 lpm, dispenser	Liquid
P80S	Single inlet, single hose, 80 lpm, dispenser	Liquid
PP40S	Dual inlet, dual hose, 40 lpm each, both dispensers	Liquid
PP80S	Dual inlet, dual hose, 80 lpm each, both dispensers	Liquid
PP40/80S	Dual inlet, dual hose, one 40 lpm & one 80 lpm, both dispensers	Liquid
P160S	Single inlet, single hose, 160 lpm, dispenser	Liquid
PP160S	Dual inlet, dual hose, 160 lpm each, both dispensers	Liquid
PP160/40S	Dual inlet, dual hose, one 160 lpm & one 40 lpm, both dispensers	Liquid
PP160/80S	Dual inlet, dual hose, one 160 lpm & one 80 lpm, both dispenser	Liquid
P400S	Single inlet, single hose, 400 lpm, dispenser	Liquid
P40P	Single inlet, single hose, 40 lpm, pump	Liquid
P80P	Single inlet, single hose, 80 lpm, pump	Liquid
PP40P	Dual inlet, dual hose, 40 lpm each, both pumps	Liquid
PP80P	Dual inlet, dual hose, 80 lpm each, both pumps	Liquid
P160P	Single inlet, single hose, 160 lpm, pump	Liquid
PLPG	Single inlet, single hose, LPG dispenser	LPG
PLPGD	Single inlet, dual hose, both LPG dispensers	LPG

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Drawings:

DRAWING NO.	DRAWING TITLE	REVISION NO.	DRAWN/ REVISION DATE
AP312 Sheet 1	Hydraulic Modules Dispenser 40 or 80 lpm	A	16/2/99
AP312 Sheet 3	Hydraulic Modules Dispenser 160 lpm	A	16/2/99
AP312 Sheet 4	Hydraulic Modules Dispenser 400 lpm	A	16/2/99
AP312 Sheet 5	Hydraulic Modules Pump 40 or 80 lpm	B	29/6/99
AP312 Sheet 7	Hydraulic Modules Pump 160 lpm	B	29/6/99
AP312 Sheet 8	Hydraulic Modules LPG Single	A	16/2/99
AP312 Sheet 9	Hydraulic Modules LPG Dual	A	16/2/99
AP313 Sheet 1	Master Standards External Dimensions	B	29/6/99
AP313 Sheet 2	Master Standards Side Panel Accessories	A	16/2/99
AP313 Sheet 3	Master Standards Wiring and C4000	B	29/6/99
AP313 Sheet 4	Master Standards Pump Variant	B	29/6/99
AP313 Sheet 5	Master Standards Master Configurations	A	16/2/99
AP313 Sheet 6	Master Standards Premier Configurations	A	16/2/99
AP-314	Master / Premier Label	B	16/8/99
MP-112 Sheet 1	L.P.G. BREAK-AWAY GENERAL CONCEPT	G	3/4/97

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Conditions of Certification:

- 1. The installation of LPG dispensing units must include the following:**
 - an excess flow valve as required by clause 2.13.2 of AS 2229.2
 - a remote pump control switch as required by clause 2.13.3 of AS 2229.2 and
 - an overspeed trip as required by clause 2.13.4 of AS 2229.2.

The manufacturer shall provide all purchasers with installation instructions which cover the requirements listed above as required by clause 3.13.1 of AS 2229.2.

- 2. All conditions in certificates of conformity for separately certified components shall apply.**

Additional Information:

Where the Master and Premier fuel dispensers are fitted with internal components which vary from those fitted when tested (ref SIMTARS test report E99/0034) they shall be tested fully assembled in accordance with clause 5.2 of both AS 2229.1 and AS 2229.2 as appropriate.

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