



1 **EC TYPE-EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 94/9/EC

3 Certificate Number: **Sira 05ATEX9095** Issue: **3**

4 Equipment: **Type C Liquid Fuel Dispenser**

5 Applicant: **Pumptronics Europe Limited**

6 Address: **Folgate Road
North Walsham
Norfolk NR28 0AJ
UK**

7 This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 Sira Certification Service, notified body number 0518 in accordance with Article 9 of Directive 94/9/EC of 23 March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 14.2.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule to this certificate, has been assured by compliance with the following documents:

EN 13617-1:2004

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

11 This EC type-examination certificate relates only to the design and construction of the specified equipment. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment.

12 The marking of the equipment shall include the following:



II 2G
EN 13617-1

Project Number 26869

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C Ellaby
Deputy Certification Manager

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SCHEDULE

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13 DESCRIPTION OF EQUIPMENT

The 'C' Type liquid fuel dispenser is a multi-product device rated at single phase 230 V and consists of a steel monocoque design forming an hydraulic housing and control/display enclosure.

The hydraulic housing contains up to two hydraulic circuits each comprising an electrically driven pumping unit, interconnecting pipework flow control valves and a metering unit. Outlet pipework exits through the side of the housing and each is connected to a hose, suitable for petrol dispensing, and a suitable safety nozzle. The nozzles are mounted on either side of the housing in suitable 'boots'.

Each nozzle actuates a proximity switch when removed or replaced. Fuel vapour is isolated and vented from the hydraulic circuit by means of a vapour separator and flame arrester arrangement.

Ventilation is provided by means of controlled spacing around, and slots in, the housing cover panels.

The control and display enclosure is mounted in the safe area and is electronically connected to the hydraulic housing via cables passing through a 'Type 1' vapour barrier.

All electrical components are suitably certified parts.

The equipment operates at a maximum pressure of 3.5 bar and may dispense up to two products at one time. The dispenser may be attendant operated, attended self-service or unattended with remote, local operation.

Design Options

- The equipment rating may be single phase 120V or three phase 440V.
- An alternative high hose variant, the outlet pipework and hose connection extending above the dispenser.
- Omission of any of the hydraulic circuits, the dispenser being fitted with one or two outlets.
- An alternative submersible pump variant, the pump and motor being omitted. A suitable shear valve is fitted at the dispenser inlet pipe.
- Alternative 'de-bowser' arrangement. The pump inlet and outlet are reversed to enable to fuel to be recovered from the vehicle. The nozzle and hose are replaced by an extraction pipe. A moisture filter is fitted in the inlet pipework.
- The fitting of a vehicle recognition system, as ISSeP 03ATX105X.

Variation 1 - This variation introduced the following changes:

- i. The introduction of a vapour recovery system.

Variation 2 - This variation introduced the following changes:

- i. The introduction of an alternative hydraulic system – Pattern based hydraulics.
- ii. The introduction of alternative pulser – Veeder Root Type 1871, Type 7671 or 7868.
- iii. The option to fit a vehicle recognition system (reader) as Sira 08ATEX2081.



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14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Sira Reports and Certificate History

Issue	Date	Report no.	Comment
0	28 February 2008	R51M11991A	The release of the prime certificate.
1	9 April 2009	R51A18326A	The introduction of Variation 1.
2	8 February 2012	R26869A/00	The introduction of Variation 2.
3	13 September 2012	R26869A/01	Report R26869A/01 replaced R26869A/00.

15 SPECIAL CONDITIONS FOR SAFE USE (denoted by X after the certificate number)

None

16 ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II (EHSRs)

The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in the reports listed in Section 14.2.

17 CONDITIONS OF CERTIFICATION

17.1 The use of this certificate is subject to the Regulations Applicable to Holders of Sira Certificates.

17.2 Holders of EC type-examination certificates are required to comply with the production control requirements defined in Article 8 of directive 94/9/EC.

17.3 Each Type C Liquid Fuel Dispenser shall be subjected to the routine electrical tests detailed in clause 6.2.1 of EN 13617-1:2004.

17.4 Each Type C Liquid Fuel Dispenser shall be subject to a routine pressure test in accordance with clause 6.2.2 of EN 13617-1:2004.

Certificate Annexe

Certificate Number: Sira 05ATEX9095
Equipment: Type C Liquid Fuel Dispenser
Applicant: Pumptronics Europe Limited



Issue 0

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
99CAD/EUROPE/NEW/SIRA/CEX0100	1 of 1	F	27 Feb 08	Type C dispenser General arrangement and details
99CAD/EUROPE/NEW/SIRA/C1-0053	1 of 1	A	27 Feb 08	Details of joints
99CAD/EUROPE/NEW/SIRA/C1-0002	1 of 1	B	27 Feb 08	Mounting details
99CAD/EUROPE/NEW/SIRA/C1-0003	1 of 1	B	27 Feb 08	Mounting details for STP version
99CAD/EUROPE/NEW/SIRA/C1-0023	1 of 1	C	27 Feb 08	Type C variants
99CAD/EUROPE/NEW/SIRA/C1-0051	1 of 1	B	27 Feb 08	Certification label
99CAD/EUROPE/SIRA/C1-0052	1 of 1	C	27 Feb 08	Electrical and hydraulic schematic Single product twin suction
99CAD/EUROPE/SIRA/C1-0054	1 of 1	C	27 Feb 08	Electrical and hydraulic schematic Single product mono suction
99CAD/EUROPE/SIRA/C1-0055	1 of 1	C	27 Feb 08	Electrical and hydraulic schematic Two product twin suction
99CAD/EUROPE/SIRA/C1-0056	1 of 1	C	27 Feb 08	Electrical and hydraulic schematic Single product twin STP
99CAD/EUROPE/SIRA/C1-0057	1 of 1	C	27 Feb 08	Electrical and hydraulic schematic Single product mono STP
99CAD/EUROPE/SIRA/C1-0058	1 of 1	C	27 Feb 08	Electrical and hydraulic schematic Two products mono STP
99CAD/EUROPE/SIRA/C1-0060	1 of 1	A	27 Feb 08	Electrical and hydraulic schematic Two products mono STP

Issue 1

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
C1-0061	1 of 1	A	27 Mar 09	Electrical/Hydraulic Schematic for V.R.

Issue 2 (The drawing originally associated with this Issue and was removed and replaced by that introduced in Issue 3.)

Issue 3

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
CEX0100	1 of 1	G	12 Sep 12	Type C dispenser General arrangement and details

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