

EC-TYPE EXAMINATION CERTIFICATE



- [1]
- [2] **Equipment or Protective System intended for use
in Potentially Explosive Atmospheres
Directive 94/9/EC**
- [3] EC-Type Examination Certificate Number: **DEMKO 14 ATEX 1344X Rev.0**
- [4] Equipment or Protective System: **Servo Controller Model No. ECA-XP**
- [5] Manufacturer: **Pulsafeeder Inc.**
- [6] Address: **2883 Brighton Henrietta Town Line Rd Rochester, NY 14623-2790 USA**
- [7] This equipment or protective system and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.
- [8] UL International Demko A/S, notified body number 0539 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.
The examination and test results are recorded in confidential report no. **4786597761**
- [9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 60079-0:2012+A11:2013 EN 60079-1:2007 EN 60079-31:2014
- [10] If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system 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, examination and tests of the specified equipment or protective system in accordance to the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system.
These are not covered by the certificate.
- [12] The marking of the equipment or protective system shall include the following:

II 2 G Ex d IIB T6 Gb

II 2 D Ex tb IIIC T85°C Db IP66

Certification Manager
Jan-Erik Storgaard

This is to certify that the sample(s) of the Equipment described herein ("Certified Equipment") has been investigated and found in compliance with the Standard(s) indicated on this Certificate, in accordance with the ATEX Equipment Certification Program Requirements. This certificate and test results obtained apply only to the equipment sample(s) submitted by the Manufacturer. UL did not select the sample(s) or determine whether the sample(s) provided were representative of other manufactured equipment. UL has not established Follow-Up Service or other surveillance of the equipment. The Manufacturer is solely and fully responsible for conformity of all equipment to all applicable Standards, specifications, requirements or Directives. The test results may not be used, in whole or in part, in any other document without UL's prior written approval.

Date of issue: 2014-12-17



Notified Body

UL International Demko A/S, Borupvang 5A, 2750 Ballerup, Denmark
Tel. +45 44 85 65 65, info.dk@ul.com, www.ul.com

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Schedule

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EC-TYPE EXAMINATION CERTIFICATE No.

DEMKO 14 ATEX 1344X Rev. 0

Report: 4786597761

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Description of Equipment or protective system

The ECA-XP is an electromechanical servo controller intended to adjust flow in a process media by controlling stroke length in a pump. It is intended to be programmed and controlled through the ECA-XP controller, and mounted to a suitable user supplied pump.

The ambient temperature range is -20 °C to +40 °C.

The marked temperature code is T6.

Electrical data: 115 VAC, 10A, 50/60 Hz
 230 VAC, 5A, 50/60 Hz

Installation instructions

All enclosure entries must have a seal within 50 mm of the enclosure.

The enclosure must not be opened while energized.

Mounting instructions

Refer to "Instructions".

Routine tests

Routine tests according to EN 60079-1 cl. 15.1.3.1 are not required, as the enclosure has been successfully tested at four times the reference pressure.

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Report No.

Project Report No.: 4786597761 (Hazardous Location Testing)

Documents:

Description:	Drawing No.:	Rev. Level:	Date:
ECA-XP Encl N7 (1 of 2)	NP91HXX_UX_001	H	2014-05-19
NP91HXX_UX-XXXX Construction Notes and Details (2 of 2)	NP91HXX_UX_002	H	2014-11-18
Cover, Bot XPN7 (1 of 2)	NP250016_X01	AA	2014-11-18
Cover, Bot XPN7 (2 of 2)	NP250016_002	AA	2014-11-18
Cover, Top XPN7 (1 of 3)	NP250017_X01	Z	2014-11-06
Cover, Top XPN7 (2 of 3)	NP250017_002	Z	2014-11-06
Cover, Top XPN7 (3 of 3)	NP250017_003	Z	2014-11-18
Bearing, Bot Enclsr	NP400011_001	E	2014-11-18
Seal, Oil 14 x 24 x 6	NP450011_001	H	2014-11-18
Shaft, Drv Cplg	NP410007_001	E	2014-05-29
Com Parts, 16:1 Geartrain	NP060014_001	L	2007-09-25
Motor Assy	NP500500_001	J	2007-09-26
Label, Model w/Logo EUR ECA-XP	NP550081_001	L	2014-11-18
Installation, Operation & Maintenance Instruction	IOM-ECA_NEMA7	H	2014-12-05



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Specific conditions of use:

- Dimensions of flameproof joints are other than the relevant minimum or maximum specified in Table 1. Contact manufacturer for information on the dimensions of the flameproof joints.
- Yield stress of cover bolts is 640 MPa.
- This equipment shall be installed so that the flanged joint(s) are not within 30 mm of a solid object that is not part of this equipment.

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Essential Health and Safety Requirements

Concerning ESRs this Schedule verifies compliance with the Annex III of ATEX directive only. By placing the product on the market, the manufacturer declares compliance with other relevant Directives, and all other safety related requirements including those of Annex II of this Directive.

Additional information

The servo controller model no. ECA-XP has in addition passed the tests for Ingress Protection to IP 66 in accordance with EN60529: 1991/A1 2000.

This certificate was issued as "Accredited by DANAK under registration number 7011 to certification of products".

The manufacturer shall inform the notified body concerning all modifications to the technical documentation as described in ANNEX III to Directive 94/9/EC of the European Parliament and the Council of 23 March 1994.

