

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 16 ATEX 1675X Rev. 0**

[4]

Equipment or Protective System: **Box IPC Modular and Display, Models PFXP Series**

[5]

Manufacturer: **Digital Electronics Corporation**

[6]

Address: **4-4-9 Kitahama, Chuo-Ku, Osaka-shi, Osaka 541-0041 Japan**

[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. **4787339612**

[9]

Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0:2012+A11:2013

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 3 D Ex tc IIIC T70°C Dc**

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: 2016-03-21

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



[13]

[14]

Schedule
EC-TYPE EXAMINATION CERTIFICATE No.
DEMKO 16 ATEX 1675X Rev. 0
Report: 4787339612

[15]

Description of Equipment or protective system

Models PFXP Series are Touch Panel PC that shall be mounted in a suitable enclosure which is at least IP65X in accordance with EN 60079-31. They are provided with either a 4:3 15" or 15.6"W touch panel and Box PC type A or Box PC type B and an AC power module. The differences between Box PCs are size, CPU and number of expansion slot. The differences between panels are size, construction and touch function. Two optional DC fans and one optional USB expansion PCIE can be equipped with Type A box PC. The front panels are evaluated with end enclosure and suitable for IP65.

The optical radiation output of the apparatus with respect to explosion protection, according to Annex II clause 1.3.1 of the Directive 94/9/EC is covered in this certificate.

Nomenclature:

PFXP	P	2	7	X	C	D	4	Y	N	ZZZ	0
I	II		III	IV	V	VI	VII	VIII	IX	X	

- I. Prefix:
PFXP: Model type
- II. Model Designation:
U: Represent CPU, Haswell Celeron 2980U
P: Represent CPU, Haswell i7-4650U
- III. Display module:
7: Represent 4:3 15" display panel
J: Represent 15.6"W display panel
- IV. Combination of CPU, RAM and PCI slot
X can be any character to represent combination.
- V. Expansion slot configuration:
C or J: Base unit
F or W: Expansion USB board and Fans Module
- VI. Power Supply:
D: DC power source.
A: AC Power source.
- VII. Memory:
4: 4GB
8: 8GB
A: 16GB
- VIII. Operating system
Y can be any character to represent OS type.
- IX. Storage type:
N: None
A: CFast
J or K: HDD
L, M or P: SSD
- X. Combination of second storage type, Interface options and Software bundle:
Z can be any character to represent combination.

Electrical data

Models	Rating
PFXP Series	Input: 24 V dc, 4.2 A max Optional with AC Power module Input: 100-240 V ac, 50-60Hz, 2.5 Amax. Output: 24 V dc, 4.6 A max.

Temperature range

The relation between ambient temperature and the assigned temperature class is as follows:

Ambient temperature range
0 °C to +55 °C

Temperature class
T70°C

Mounting instructions

Use a torque of 0.5 Nm (4.5 lb-in) for mounting securement to ensure the protection. See installation instruction for details.

[13]

Schedule

[14]

EC-TYPE EXAMINATION CERTIFICATE No.

DEMKO 16 ATEX 1675X Rev. 0

Report: 4787339612

Routine tests

No routine tests are necessary.

[16]

Descriptive Documents

The scheduled drawings are listed in the report no. provided under item no. [8] on page 1 of this EC-Type Examination Certificate.

[17]

Specific conditions of use:

- Both 4:3 15" and 15.6"W display front panel surface have been evaluated to the enclosure requirements for Ingress Protection to IP65 in accordance with EN 60079-0.
- The equipment shall be mounted to an enclosure that provides a degree of protection not less than IP 65 in accordance with EN 60079-31.
- Do not expose to direct sunlight or UV light source.
- Equipment must be installed in a low risk mechanical danger environment.

[18]

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.

The **Pro-face** will be used as the company identifier on the marking label.

Additional information

Both 4:3 15" and 15.6"W display panel flat surface have in addition passed the tests for Ingress Protection to IP 65 in accordance with EN60529:1991+A1:2000+A2:2013.

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.