

# TYPE EXAMINATION CERTIFICATE



## Equipment or Protective System intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

Type Examination Certificate Number: **DEMKO 13 ATEX 1205911X Rev. 8**

Product: **Industrial Visunet eXTreme PC Series RM/PC9715 and RM/PC9719**

Manufacturer: **Pepperl + Fuchs GmbH**

Address: **Lilienthalstrasse 200, 68307 Mannheim, Germany**

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

UL International Demko A/S certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014.

The examination and test results are recorded in confidential report no. **4788220129**

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

**EN 60079-0:2012+A11:2013    EN 60079-11:2012    EN 60079-15:2010**

except in respect of those requirements listed at item 18 of the Schedule.

If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

This Type examination certificate relates only to the design of the specified product, and not to specific items of product subsequently manufactured.

The marking of the product shall include the following:

 **II 3 G    Ex ic nA nC IIC T4 Gc**

 **II 3 G    Ex ic nA nC [ic] IIC T4 Gc**

**Certification Manager**  
Jan-Erik Storgaard

**Certification Body**

This is to certify that the sample(s) of the Product described herein ("Certified Product") has been investigated and found in compliance with the Standard(s) indicated on this Certificate, in accordance with the ATEX Product Certification Program Requirements. This certificate and test results obtained apply only to the product 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 product. UL has not established Follow-Up Service or other surveillance of the product. The Manufacturer is solely and fully responsible for conformity of all product 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:** 2013-06-02

**Re-issued:** 2017-11-28



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## Schedule

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[15] Description of Product:

Models RM/PC9715 and RM/PC9719 are industrial computers that can either be installed into a panel/suitable enclosure or utilized by themselves. They are provided with either a 15" or 19" screen and can be either DC or AC power devices. They are suitable for an Ingress Protection of IP66. The units also have an optional Heater when operated in -40°C. These units do have the option of providing intrinsically safe "ic" circuit via two [ic] USB ports that are located in the back of the unit's junction box, and one, I.S. (level "ic")\ USB inputs located on the front bezel.

Models RM/PC9715 and RM/PC9719 utilize a touchscreen and a relay that are Sealed Devices "nC", a Membrane Keypad that is intrinsically safe "ic" and non-sparking components that are "nA". They also contain protective circuitry that provides "ic" circuits for two rear USB ports, when installed in accordance with Control Drawing No. 116-B017.

Models RM/PC9715 and RM/PC9719 are identical in all aspects except in screen size. Model RM/PC9715 utilizes a 15" screen while Model RM/PC9719 utilizes a 19" screen.

PC9715	-	R	W3	Q1	AC	XT1	A	F0	LL	SH	N
I		II	III	IV	V	VI	VII	VIII	IX	X	XI

Part	Description	Designation	Designation Description
I	Series Designation: Monitor Type, Display Size:	PC9715 RM9715	PC, 15.0", XGA (1024 x 768 pixel) RM, 15.0"
		PC9719 RM9719	PC, 19.0", SXGA (1280 x 1024 pixel) RM, 19.0"
II	Screen Type	R	Touchscreen, Resistive 5-wire, hardened glass
III	Protection	W3	ATEX II 3 G, Class I, Division 2 ABCD, Class I, Zone 2 T4 and cULus Certified
		L2	ATEX II 3 G, T4
IV	Processor Board Specification	Qx	Q = Intel Quad Core i7 processor 2.1 GHz, 120 GB SSD, "x" = any letter or number to indicate any combination of either 4GB RAM or 8GB RAM, with or without SD card reader, and specific OS.
		Cx	C = Intel Dual Core Celeron processor 1.6 GHz, 4GB RAM, 120 GB SSD, "x" = any letter or number to indicate with or without SD card reader, and specific OS.
V	Power Supply	AC	100-240 Vac, 50/60Hz
		DC	18-30 Vdc
VI	Housing	-XT1	Cast Aluminum Housing, IP66
		-XTy	Cast Aluminum Housing, IP66 Y = any letter or number to indicate custom logo

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Part	Description	Designation	Designation Description
VII	I/O Connections	A	Rear junction box with cable glands (4 x M20, 2 x M16)
		B	Rear junction box with cable glands (4 x M20, 2 x M16) , 1 x USB (ic) Type A on front panel.
		E	Rear junction box with armored cable glands (4 x M20 armored, 2 x M16 non-armored) - "L2" option only
		F	Rear junction box with armored cable glands (4 x M20 armored, 2 x M16 non-armored); 1 x USB (ic) Type A on front panel - "L2" option only
VIII	Function Keys	F0	No Function Keys
		F1	Function Keys, F1-F4
IX	Network Features	LL	2 x LAN
		LW	2 x LAN x WiFi (2 x SMA Coax)
		LF	1 x ST Fiber, 1 x LAN
		FW	1 x LAN, 1 x ST Fiber, 1 x WiFi (2 x SMA Coax)
X	Special Accessories	S0	No special accessories
		SH	Heater (Both AC and DC)
XI	Options	N0	No Option
		U1	I.S. (level "ic") USB ports (rear)

The optical radiation output of the product with respect to explosion protection, according to Annex II clause 1.3.1 of the Directive 2014/34/EU is not covered in this certificate.

Temperature range:

The ambient temperature range is:  $-20^{\circ}\text{C} \leq T_{\text{amb}} \leq 65^{\circ}\text{C}$

Ambient temperature range with Heater Option:  $-40^{\circ}\text{C} \leq T_{\text{amb}} \leq 65^{\circ}\text{C}$

Electrical data

Models	AC Option	DC Option
RM/PC9715	100-240 Vac, 1.5A, 50/60Hz	18-30 Vdc, 7A
RM/PC9719	100-240 Vac, 2A, 50/60Hz with heater option	18-30 Vdc, 20A with heater option

When U1 option is used, the following are the entity parameters for the USB inputs for rear I/O:

[ic] Field Parameters	
$U_o$ (V)	4.92
$I_o$ (mA)	183
$C_o$ ( $\mu\text{F}$ )	52
$L_o$ ( $\mu\text{H}$ )	800
$P_o$ (mW)	567

The following are the entity parameters for the USB inputs for front I/O:

[ic] Field Parameters	
$U_o$ (V)	5.0
$I_o$ (mA)	240
$C_o$ ( $\mu\text{F}$ ) (Group IIB)	60
$C_o$ ( $\mu\text{F}$ ) (Group IIC)	12
$L_o$ ( $\mu\text{H}$ )	24
$V_{oc}$	5.0
$U_m$	30 (SELV)

Routine tests:

No routine tests necessary.

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Descriptive Documents

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

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[17] Special Conditions of Use:

- Equipment is to be used in an area of not more than pollution degree 2 as defined in EN 60664-1.
- Installation in accordance with Control Drawing No. 116-B017 is required when I/O Connection designation B and/or option U1 is used.

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Essential Health and Safety Requirements

The Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9.

Additional information

The Models PC9715 and PC9719 have in addition passed the tests for Ingress Protection to IP 66 in accordance with EN60529:1991+A1:2000+A2:2013.