



## Type Examination Certificate **CML 18ATEX4156X Issue 1**

- 1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU
- 2 Equipment **VisuNet IND-900 Series DM, RM, KM, and PC**
- 3 Manufacturer **Pepperl+Fuchs GmbH**
- 4 Address **Lilienthalstrasse 200,  
68307 Mannheim,  
Germany**
- 5 The equipment is specified in the description of this certificate and the documents to which it refers.
- 6 CML B.V., Chamber of Commerce No 6738671, Hoogoorddreef 15, Amsterdam, 1101 BA, The Netherlands, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design of equipment intended for use in potentially explosive atmospheres given in Annex II of Directive 2014/34/EU.  
The examination and test results are recorded in the confidential reports listed in Section 12.
- 7 If an 'X' suffix appears after the certificate number, it indicates that the equipment is subject to conditions of certification (affecting correct installation or safe use). These are specified in Section 14.
- 8 This Type Examination certificate relates only to the design and construction of the specified equipment or component. Further requirements of Directive 2014/34/EU Annex VIII apply to the manufacture of the equipment or component.
- 9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the confidential report, has been demonstrated through compliance with the following documents:  
EN 60079-0:2018                      EN 60079-11:2012                      EN 60079-15:2010
- 10 The equipment shall be marked with the following:



II 3 G

Ex ic nA IIC T4 Gc

Ta = -20°C to +55°C

R C Marshall  
Certification Officer



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## 11 Description

The VisuNet IND-900 Series DM, RM, KM, and PC is a range of industrial monitors, remote monitors, PCs or PC extenders, with LCD display and optional keyboard. The products are rated for stationary use and for permanent connection.

The various models are similar and comprise either a 15", 19", 21.5" or 22" enclosure with LCD video monitor. The following model types are available:

DM (Direct Monitor) – standard display/monitor

KM (Keyboard video mouse extender) – display with interface for remote keyboard, video, and mouse

RM (Remote monitor) – display with integral low power CPU

PC (Personal computer) – complete workstation comprising display with integral PC

All models are either DC or AC powered with the following ratings:

100 – 240 Vac 0.5 A, or

20 – 30 Vdc 5 A

Model nomenclature is defined in the tables below:

	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
e.g.	PC9	15	A	A2	PD*	AC	SP7	N	K0	L0	S0	N

Variable	Description	Option	Description / Designation
I	Family	DM9 KM9 RM9 PC9	Direct Monitor Family KVM Monitor Family Remote Monitor Family PC Family
II	Screen Size	15 19 21 22	15.0", XGA (1024 x 768 pixel) 19.0", SXGA (1280 x 1024 pixel) 21.5", Full HD (1920 x 1080 pixel) 22.0", WSXGA (1680 x 1050 pixel)
III	Screen Type	A R T U F K	Antiglare glass front, non-touch Touch Screen, Resistive, 5-wire, hardened Glass Touch Screen, Resistive, 5-wire High Bright Display with Touch Screen, Resistive, 5-wire High Bright Display with antiglare front, non-touch High Bright Display with Touch Screen, Resistive, 5-wire, hardened glass
IV	Protection	V3 A2	ATEX/IECEX Zone 2 + North America ATEX/IECEX Zone 2



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Variable	Description	Option	Description / Designation
V	Board Specification	PD*	i7 Dual Core processor, 4 GB RAM, 120 GB SSD, 1 x USB, 1 x Network (* See below)
		PE*	i7 Dual Core processor, 8 GB RAM, 120 GB SSD, 1 x USB, 1 x Network (* See below)
		PF*	ATOM Dual Core processor E3826, 4 GB RAM, 120 GB SSD, 1 x USB, 1 x Network (* See below)
		PG*	ATOM Dual Core processor E3826, 8 GB RAM, 120 GB SSD, 1 x USB, 1 x Network (* See below)
		PH*	ATOM Dual Core processor E3826, 4 GB RAM, 120 GB SSD, 1 x USB, 1 x Network (* See below)
		PI*	ATOM Dual Core processor E3826, 8 GB RAM, 120 GB SSD, 1 x USB, 1 x Network (* See below)
		PJ*	i7-7600U, 4 GB RAM, 120 GB SSD, 1 x USB, 1 x Network
		PK*	i7-7600U, 8 GB RAM, 120 GB SSD, 1 x USB, 1 x Network
		T5*	Thin Client, ATOM Dual Core processor E3826, 4 GB RAM, 32GB CFAST, (* See below)
		T6*	Thin Client, ATOM Dual Core processor E3826, 4 GB RAM, 32GB CFAST, (* See below)
		V1	Video DVI-D
		V2	Video VGA
		V4	Specialized DM for Duplex connection to RM via internal USB to DVI converter (DM only)
		K3	KVM for VGA Video included, 2x PS/2, 1x RS232, analogue CATx cable transmission, ROSE
		K4	KVM for DVI-D Video included, 2 x USB interface, 1 x RS232, CATx cable transmission, ROSE **
K5	KVM for DVI-D Video included, 2 x USB interface, 1 x RS232, F.O. transmission, 2x LC connectors, ROSE**		
VI	Power Supply	AC DC	100-240 V AC 20-30V DC
VII	Housing Version	SP7 SS7	IND Slimline housing, black painted steel, rear junction box with cable glands IND Slimline stainless steel housing, (SS316), rear junction box with cable glands
VIII	Keyboard Housing	N	No Keyboard & Mouse housing
		C	Keyboard & Mouse housing, tilt-able 90 - 180°



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Variable	Description	Option	Description / Designation
IX	Keyboard / Mouse	K0	No Keyboard, no Mouse
		K1	Foil keyboard & no Mouse
		K4	Foil keyboard & Touchpad Mouse built-in, IP65, antibacterial foil
		K6	Foil keyboard & Joystick; IP65, antibacterial foil
		K8	Foil keyboard & 50 mm optical Trackball Mouse, built-in, cleanable trackball, IP65, antibacterial foil
		K9	Foil keyboard & Resistive Touch-Pad Mouse build in
X	Keyboard Layout	L0	No Keyboard, no Layout
		XX	Any type of layout
XI	Special Accessories	S0	No Special Accessories
		FO	Fiber Optic LAN Multi-Mode
		FS	Fiber Optic LAN Single-Mode
		SR	RS485 Port
		LL	Dual Lan
XII	Options	N	No Option

\*Asterisk represents an alphanumeric character denominating a software package which does not affect the certification of the equipment.

\*\*These options are only suitable for DC powered versions

## 12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	08 Aug 2018	R11779A/00	Issue of prime certificate
1	07 Dec 2018	R12136A/00	Transfer from CML UK to CML BV Certificate

Note: Drawings that describe the equipment or component are listed in the Annex.



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### **13 Conditions of Manufacture**

The following conditions are required of the manufacturing process for compliance with the certification.

- i. Where the product incorporates certified parts or safety critical components the manufacturer shall ensure that any changes to those parts or components do not affect the compliance of the certified product that is the subject of this certificate.
- ii. The equipment shall be subjected to an electric strength test in accordance with IEC60079-15 Clause 6.1 using a test voltage of:
  - For AC powered models, 1500Vac applied between supply connections and frame, for a period of 60 secs.
  - For DC powered models, 500Vac applied between supply connections and frame, for a period of 60 secs

Alternatively, a test voltage of 20% higher may be applied for 0.1 seconds. A DC test voltage is allowed as an alternative to the AC test voltage and shall be 140% of the specified AC r.m.s. test voltage

### **14 Specific Conditions of Use (Special Conditions)**

The following conditions relate to safe installation and/or use of the equipment.

- i. The equipment is for fixed use only and shall not be used for portable applications.
- ii. Under certain extreme circumstances, the non-metallic parts incorporated in the enclosure of this equipment may generate an ignition-capable level of electrostatic charge. Therefore, the equipment shall not be installed in a location where the external conditions are conducive to the build-up of electrostatic charge on such surfaces. In addition, the equipment shall only be cleaned with a damp cloth.
- iii. For DC powered models, transient protection shall be provided externally to limit transients on the power supply input to 119Vpk



## Certificate Annex

**Certificate Number** CML 18ATEX4156X  
**Equipment** VisuNet IND-900 Series DM, RM, KM, and PC  
**Manufacturer** Pepperl+Fuchs GmbH

The following documents describe the equipment or component defined in this certificate:

### Issue 0

Drawing No	Sheets	Rev	Approved date	Title
16-0880CM-00	1 to 4	-	08 Aug 2018	Description and calculations - VisuNet IND enclosed monitors DM, RM, KM and PC
16-0880CM-02	1 to 8	-	08 Aug 2018	Relevant components - VisuNet IND enclosed monitors DM, RM, KM and PC
16-0880CM-04	1 to 33	-	08 Aug 2018	Mechanical parts - VisuNet IND enclosed monitors DM, RM, KM and PC
16-0880CM-07	1 to 18	-	08 Aug 2018	Assembly - VisuNet IND enclosed monitors DM, RM, KM and PC
16-0880CM-10	1 to 2	-	08 Aug 2018	Type label - VisuNet IND enclosed monitors DM, RM, KM and PC

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No drawings issued.