[1]	EU-TYPE EX					
				$\langle \mathbf{r}_{\mathbf{Y}} \rangle$		
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[2]	Equipment of in Pote	entially Explo Directive 2	System Interio sive Atmosph 014/34/EU	ded for use neres		
[3]	EU-Type Examination Certificate Number: DEMKO 16 ATEX 1640X Rev. 2					
[4]	Product: Purge control system, Model 6500-01-****-*** and 6500-01-UIC-***					
[5]	Manufacturer: Pepperl & Fuchs AG					
[6]	Address: Lilienthalstrasse 200, 68307	Mannheim, G	Germany			
[7]	This product and any acceptable variation there	eto are specified i	n the schedule to t	this certificate and the documents therein referred to.		
[8]	UL International Demko A/S, notified body number 0539 in accordance with Article 17 of the Council Directive 2014/34/EU of 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to design and construction of products 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. 4789116251.2.1					
[9]	Compliance with the Essential Health and Safe	ty Requirements	has been assured	by compliance with:		
	EN IEC 60079-0:2018 EN 60079-7:2015+A1:2018	EN 60079- EN 60079-	2:2014 11:2012	EN 60079-5:2015 EN 60079-31:2014		
[10]	If the sign "X" is placed after the certificate num	If the sign "X" is placed after the certificate number, it indicates that the product is subject to special conditions for safe use specified in the				
[11]	This EU-Type Examination Certificate relates o Directive apply to the manufacturing process ar	eU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the ctive apply to the manufacturing process and supply of this product. These are not covered by the certificate.				
[12]	The marking of the product shall include the following: Options where UIC is included with EPCU:					
	II 2 G Ex eb q ib [ib Gb] [pxb Gb]	IIC T4 Gb	€x ∥ 2 G	Ex eb q ib [ib Gb] [pyb Gb] IIC T4 Gb		
	II 2 D Ex tb ib [ib Db] [pxb Db] IIIC T Options where UIC is pa	135°C Db anel mounted	or otherwise no	Ex tb ib [ib Db] [pyb Db] IIIC T135°C Db ot installed with EPCU:		
	😥 II 2 G Ex eb q [ib Gb] [pxb Gb]	IIC T4 Gb	(Ex) 2 G	Ex eb q [ib Gb] [pyb Gb] IIC T4 Gb		
	Ex ll 2 D Ex tb [ib Db] [pxb Db] IIIC	T90°C Db	€ x II 2 D	Ex tb [ib Db] [pyb Db] IIIC T90°C Db		
			C:			
æ		This is to certify that	the sample(s) of the Pro	EX ID [Pyb Db] IIIC 1135°C Db		
	Certification Manager Jan-Erik Storgaard	and found in compli- Certification Program sample(s) submitted provided were repre- surveillance of the p applicable Standard part, in any other do	ance with the Standard(s n Requirements. This ce I by the Manufacturer. U sentative of other manuf roduct. The Manufacture s, specifications, require icument without UL's pric	i) indicated on this Certificate, in accordance with the ATEX Product ertificate and test results obtained apply only to the product I/L did not select the sample(s) or determine whether the sample(s) actured product. UL has not established Follow-UP service or other er is solely and fully responsible for conformity of all product to all ments or Directives. The test results may not be used, in whole or in or written approval.		
	In the Augurent	Date of issu	Je: 2016-07-12			
		Re-issue	ed: 2019-12-20			
	Notified Body	UL Internatio	onal Demko A/ 85 65 65. info.	S, Borupvang 5A, 2750 Ballerup, Denmark		

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Schedule **EU-TYPE EXAMINATION CERTIFICATE No.** DEMKO 16 ATEX 1640X Rev. 2

Description of Product

The 6500 purge system is designed to be a purge controller system for "pxb" and "pyb" applications.

The system consists of a main control unit and a vent.

The main control unit is made up of the EPCU (Electronic purge control Unit) and the UIC (User Interface controller). The main control unit packages the EPCU and UIC into a single mechanical unit. The EPCU contains the terminal board for customer wiring and performs the power distribution for the rest of the system components (vent, user interface, manifold) and contains the enclosure power relay and auxiliary alarm relay.

The EPCU controls the primary function of the purge unit: Performs the control of purge gas entering the enclosure, determines when an adequate amount of air has been passed through the enclosure and adequate pressure exists within the enclosure to allow power to the enclosure. The EPCU is a dust tight enclosure that allows customer wiring connections through the use of EN 60079-7 (increased safety) where the wiring terminations are spaced adequately apart to prevent wires from touching. The electronics within the EPCU are filled with glass beads, using EN 60079-5 (powder fill) as a protection method. I/O powered in a hazardous environment are protected through EN 60079-11 (intrinsic safety). This includes the UIC, connections for an EPV-6500 vent, a temperature sensor and switch input.

The UIC (user interface controller) is an intrinsically safe device connected to the EPCU via a connector providing power and RS-485 data. It provides the installer/operator a method of setting up and operating the purge controller. As an option, the UIC can be remotely panel mounted and a plain lid is then used on the EPCU.

Model nomenclature:

6500-01-aaaa-bbb-ccc, where

6500-01	-EXT1	-PNO	-LNO		
Series Family	Mounting configuration options	Wiring entrance for power connections (Ex e)	Wiring entrance for IS voltage connections		
6500-01 – basic	model				
.人リ人	EXT1 – external mount				
	PM01 – panel mount version 1				
	PM02 – panel mount version 2				
	**** - any other alpha-numeric combination to define a specific mounting configuration				
		PNO – no fittings or cable gland provided (installer to select suitable fittings)			
		*** - any other 3 character alphanumeric combination to identify fittings			

LNO - no fittings or cable gland provided (installer to select suitable fittings)

> - any other 3 character alphanumeric combination to identify fittings

6500-01-UIC-aaa, where

6500-01-UIC	-EXT			
Series Family	amily Mounting configuration options			
6500-01 – basic	model			
	EXT – external mount (part of enclosure)			
	PM01 – panel mount version			

Temperature range:

The ambient temperature range is -20 °C to + 70°C.

Electrical data

Supply voltage: 20-30Vdc 0.6 Amps or 100 to 250Vac, 50/60Hz, 0.2 Amps Enclosure relays 20-30Vdc or 100 to 250Vac 8A to 60°C, 5A to 70°C Auxiliary relay 20-30Vdc or 100 to 250Vac 2A

Intrinsically safe specifications: 250 V U_m :

Intrinsic safety entities listed below are subject to the following considerations.

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The parameters are valid when one of the two conditions below is given: -The total Li of the external circuit (excluding the cable) is < 1% of the Lo value or -The total Ci of the external circuit (excluding the cable) is < 1% of the Co value. The parameters are reduced by 50% when both of the two conditions below are given: -The total Li of the external circuit (excluding the cable) is > 1% of the Lo value and -The total Ci of the external circuit (excluding the cable) is > 1% of the Co value.

Switch input (IS) Uo = 9.56VIo = 19.4mACo = $3.6\mu F$ Lo = 90mHPo = 46mW

RTD input (IS) Uo = 5.88VIo = 3.38mACo = 43μ F Lo = 100mHPo = 5mW

Digital valve output (IS Uo = 27.72VIo = 109mACo = 84nFLo = 3mHPo = 756mW

Proportional valve output (IS) Uo = 19.11VIo = 70mACo = 251nFLo = 7.2mHPo = 345mW

Vent connections only to be connected to EPV-6500-xx-xx type vent UIC connections only to be connected to 6500-01-UICxxx type user interface controller RS-485 connection Um = 250V

For ambient temperatures below –10 °C and above +60 °C use field wiring suitable for both minimum and maximum ambient temperature.

Mounting instructions Refer to "Instructions".

Routine tests

Dielectric strength test of the filling material – EN 60079-5 clause 5.2.2 Dielectric Test – EN 60079-7 clause 7.1 Routine tests for infallible transformers – EN 60079-11 clause 11.2

Descriptive Documents

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

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- Specific conditions of use:
 - When the purge control unit is mounted to an enclosure, the complete unit shall be evaluated to EN 60079-2.
 The non-metallic touchpad and display do not pose an electrostatic discharge hazard under normal use conditions. Use only water
 - damp cloth and allow to air dry for cleaning device. Do not use or install in high charge areas.
 In hazardous dust environment, regularly remove dust to prevent excessive temperature rise.
 - Cable glands and/or blanking elements used with this system shall be properly certified for the environment they are being used. Only the cable gland size identified for a particular hole shall be fitted to the hole.
 - Attention: The maximum cable length between the Vent or UIC and the control unit is 245ft (74.6m). This is based on worst case cable capacitance (Ccable) of 60pf/ft (197pf/m) and worst-case cable inductance of 0.2µH/ft (0.66µH/m). Further operational reductions may apply. See manual.
 - The relay contact circuits shall be externally fused at installation. Each circuit shall have a fuse that is rated for the voltage type being used (AC or DC) with a breaking capacity of at least 1500A. The rating of the fuse for the enclosure power connections shall not exceed 11A. for the Aux relay, it shall not exceed 3A.

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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 model 6500-01-****-*** has in addition passed the tests for Ingress Protection to IP 64 in accordance with EN60529:1991+A1:2000+A2:2013.