

UL Type Examination Certificate

ATEX Directive 2014/34/EU



Certificate

DEMKO 18 ATEX 2025X
Rev. 5

Issue date
2018-08-10

Re-issued
2026-07-20

This is to acknowledge that

Pepperl+Fuchs SE

Lilienthalstrasse 200, 68307 Mannheim, Germany

has had

Purge Controller (main controller, vent and conduit hub) and Accessory Solenoid Valves

evaluated and meets the requirements of the standards

EN IEC 60079-0:2018

EN IEC 60079-0:2018/A11:2024

EN 60079-2:2014

EN 60079-7:2015

EN IEC 60079-7:2015/A1:2018

EN 60079-7:2015/A11:2024

EN IEC 60079-15:2019

EN 60079-31:2014

EN IEC 60079-31:2024

Test Report No. **US/UL/ExTR18.0028/05**

Certification Manager
Thomas Wilson

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

This is to certify that the sample(s) of the product described herein ("Certified Product") has been investigated and found in compliance with the above mentioned harmonized Standard(s) per Article 12 of Directive 2014/34/EU of the European Parliament and of the Council relating to equipment and protective systems for use in potentially explosive atmospheres indicated on this Certificate, in accordance with the UL Type Examination Certificate Scheme Requirements. The responsibilities of manufacturers, their authorized representatives are provided in Articles 6 and 7 of the Directive 2014/34/EU. This remains the responsibility of the manufacturer and authorized representative and is not covered as part of this certificate. This certificate and test results obtained apply only to the product sample(s) submitted by the Applicant. UL International Demko A/S (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 for inspection or other surveillance of the product. The Certificate Holder is solely and fully responsible for conformity of all products to all applicable Standards, specifications, requirements or Directives/Regulations. The test results may not be used, in whole or in part, in any other document without UL's prior written approval.

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Technical Details / Schedule

Description of product

Comprising a metallic enclosure with non-metallic window, the Control Unit (model 7500...) is provided with mounting means for installation into framework, panels or enclosures. The Control Unit may also be identified as Main Control Unit or Purge Control Unit herein. Field wiring terminals and a user interface touch screen are provided within the enclosure of the Control Unit, along with field wiring threaded entries provided in the rear for incoming and outgoing field wiring. Internal and External earthing and bonding facilities are also provided.

Optional accessories identified by their own part numbers are available to the end user and have been considered as supplementary parts to the Control Unit evaluation where necessary, these include:

A Vent for installation into a purged and pressurised end equipment enclosure and is only for use in conjunction with the Control Unit as specified on the product label and in the installation instructions. All vent types are provided with spark arrestors. The end user shall take account of the installation requirements of the Vent to comply with requirements of the end product certification as specified in the installation instructions.

A metallic conduit hub provides additional threaded entries for field wiring purposes, thus expanding the maximum entries.

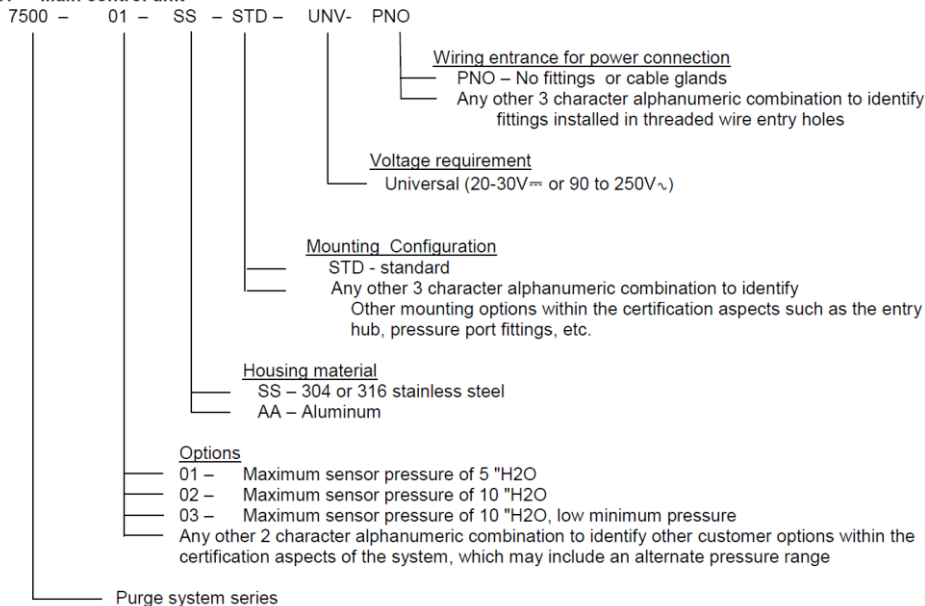
A mounting arrangement, external boxed or panel mount provides mounting methods for end user installation of the control unit and a manually operated valve manifold. The mounting means does not supplement the Control Unit type of protection, nor provide independent type of protection. It may be provided with non-electrical components which have not been included in the Control Unit evaluation.

TYPE DESIGNATION-

Extracts of Control Unit nomenclature, and accessories taken from Equipment Instruction Manual:

Control Unit –

4.1 Main control unit

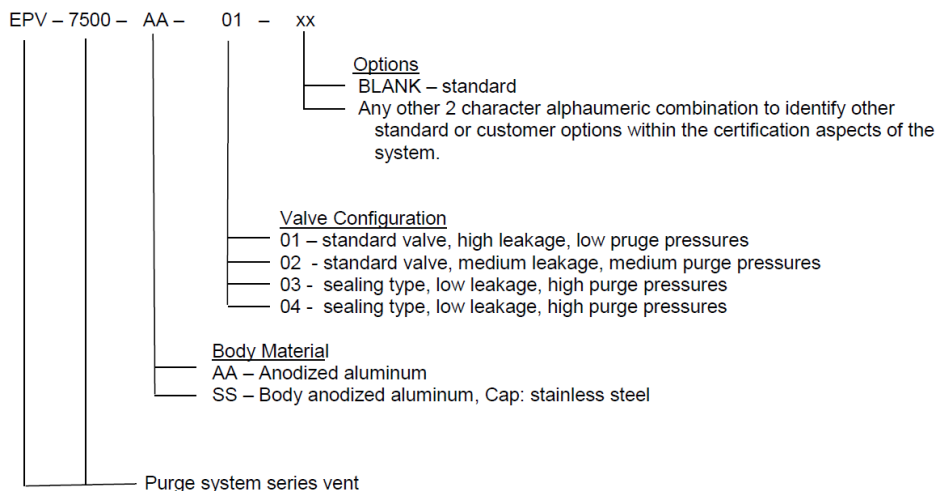


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Control Unit Accessories:

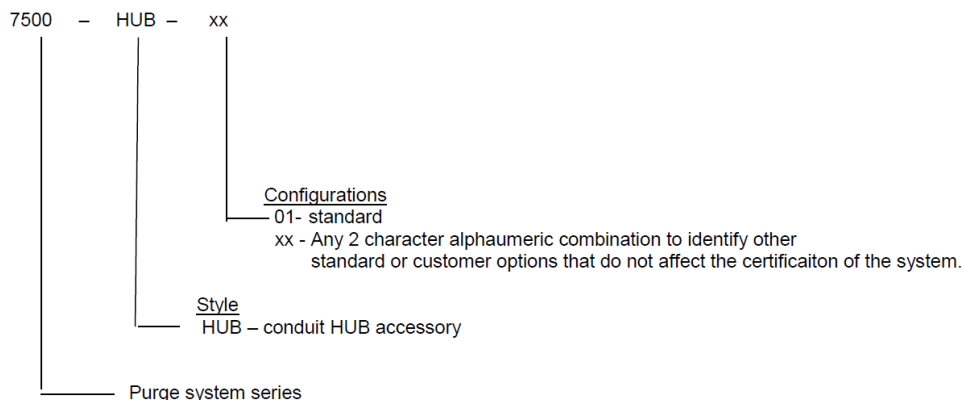
Vent -

6 EPV-7500 Vents Type code/model number



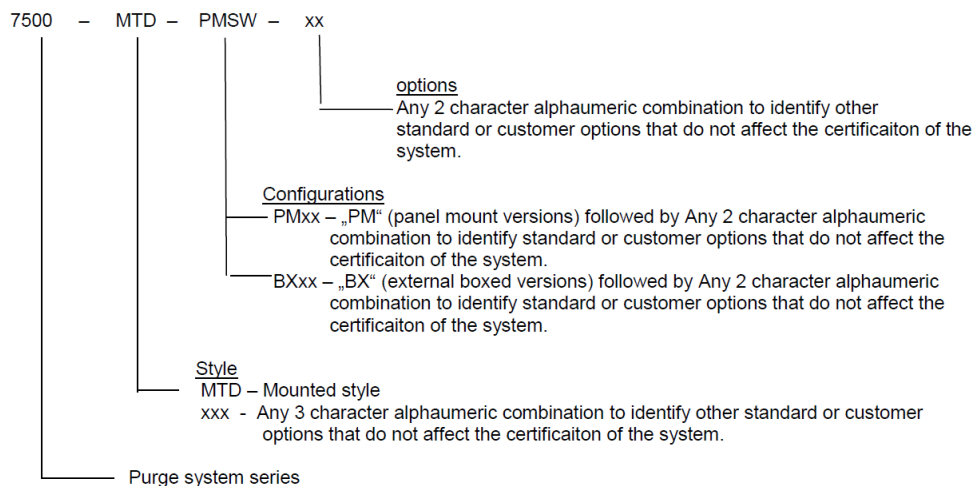
Hub -

4.3 7500 optional HUB



Mounting arrangement -

4.2 7500 mounted control unit



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Nomenclature									
N/A									
Ex marking									
	II 3 G Ex ec nC [pzc Gc] IIC T6...T4 Gc								
	II 3 D Ex tc [pzc Dc] IIIC T60°C...T80°C Dc								
Temperature range									
The relation between ambient temperatures and the assigned temperature class for the Control Unit and Hub are as follows: <table style="width: 100%; border: none;"> <thead> <tr> <th style="text-align: left;">Ambient temperature range</th> <th style="text-align: left;">Temperature class</th> </tr> </thead> <tbody> <tr> <td>-40°C ≤ Ta ≤ +50°C</td> <td>T6 / T60</td> </tr> <tr> <td>-40°C ≤ Ta ≤ +65°C</td> <td>T5 / T75°C</td> </tr> <tr> <td>-40°C ≤ Ta ≤ +70°C</td> <td>T4 / T80°C</td> </tr> </tbody> </table> The ambient temperature range for the Vent is -40°C ≤ Ta ≤ +70°C.		Ambient temperature range	Temperature class	-40°C ≤ Ta ≤ +50°C	T6 / T60	-40°C ≤ Ta ≤ +65°C	T5 / T75°C	-40°C ≤ Ta ≤ +70°C	T4 / T80°C
Ambient temperature range	Temperature class								
-40°C ≤ Ta ≤ +50°C	T6 / T60								
-40°C ≤ Ta ≤ +65°C	T5 / T75°C								
-40°C ≤ Ta ≤ +70°C	T4 / T80°C								
Trademark									
N/A									
Ratings									
Controller input – 20V-30Vdc / 0.1A 90-250Vac / 0.04A 50-60Hz Relay electrical connections – K1 – 5.0A (0-30Vdc and 0-250Vac) maximum K2 – 5.0A (0-30Vdc and 0-250Vac) maximum SV – 0.5A (0-30Vdc and 0-250Vac) maximum Accessory Solenoid Valves – Maximum Rating 0.5A (0-30Vdc and 0-250Vac)									
Routine tests									
The control unit defined above has to have successfully passed before delivery from manufacturer: Dielectric Strength tests are required per EN 60079-7. Tests must be performed with the test voltage of 1400Vac applied between live/neutral to earth. The test voltage is raised to its specified value within 5 seconds and maintained for at least 2 seconds. There shall be no flash over or breakdown of isolation.									
Descriptive documents									
The scheduled drawings are listed in the report no. provided under item "Test Report No." on page 1 of this UL Type Examination Certificate.									
Specific Conditions of Use									
- The Control Unit and optional accessories are the only parts that have been evaluated for the certification of the system. - For dust environments, the lens of the Control Unit may pose an electrostatic discharge hazard. Use only water damp cloth and allow to air dry for cleaning device. Do not use or install in high charge areas. See EN 60079-32-1 for further information. - When the Control Unit and Vent are mounted to equipment intended to be protected by concept of protection 'p', the complete installation and assembly of parts shall be evaluated to the appropriate standards and regulations applicable for the method of protection at the final installation location. - The Control Unit has a temperature class (T6 / T60°C, T5 / T75°C or T4 / T80°C) that is dependent on ambient temperature. This temperature shall be considered when mounted to an enclosure, or inside of an enclosure. - All un-used entry points to the Control Unit shall be closed with a properly certified device suitable for the area of installation with the necessary ingress protection. - The bypass function shall only be enabled when the area is known to be non-hazardous. - In hazardous dust environment, regularly remove dust from the unit to prevent excessive temperature rise.									
Essential Health and Safety Requirements									
The Essential Health and Safety Requirements (EHSRs) covered by the standards listed on page 1.									