

Translation

# EU-Type Examination Certificate Supplement 1

Change to Directive 2014/34/EU

Equipment or Protective System intended for use in potentially explosive atmospheres  
Directive 2014/34/EU

EU-Type Examination Certificate Number: **BVS 11 ATEX E 131 X**

Product: **Overvoltage protector type MDP-4/D-\*-Ex**

Manufacturer: **OBO Bettermann GmbH & Co. KG**

Address: **Hüingser Ring 52, 58710 Menden, Germany**

This supplementary certificate extends EC-Type Examination Certificate No. BVS 11 ATEX E 131 X to apply to products designed and constructed in accordance with the specification set out in the Appendix of the said certificate but having any variations specified in the Appendix attached to this certificate and the documents therein referred to.

DEKRA EXAM GmbH, Notified Body number 0158, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, 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 the Directive.

The examination and test results are recorded in the Confidential Report No. BVS PP 11.2194 EU.

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

**EN 60079-0:2012 + A11:2013 General requirements**  
**EN 60079-11:2012 Intrinsic Safety "i"**  
**EN 60079-25:2010 Intrinsically safe systems**

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 appendix to this certificate.

This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

The marking of the product shall include the following:

 **II 2(1)G Ex ia [ia Ga] IIC T4 Gb**

DEKRA EXAM GmbH  
Bochum, 2016-04-28

Signed: Simanski  
Certifier

Signed: Dr. Wittler  
Approver

13 **Appendix**  
 14 **EU-Type Examination Certificate**

**BVS 11 ATEX E 131 X  
 Supplement 1**

15 **Product description**  
 15.1 **Subject and type**

Overvoltage protector type MDP-4/D-\*-Ex

15.2 **Description**

With this supplement the certificate is changed to Directive 2014/34/EU.  
 (Annotation: In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Supplementary Certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20 April 2016.)

Description of Product

The overvoltage protector protects an intrinsically safe circuit with up to 4 wires from overvoltages.

The voltages of the individual wires against earth are limited.

The overvoltage protector can be installed in explosive areas requiring category 2-equipment (zone 1). The intrinsically safe circuits may be led into areas requiring category 1-equipment (zone 0).

The overvoltage protector does not affect the intrinsic safety of the connected circuit.

However, as the overvoltage protection starts at voltages below 500 V, the circuit is not separated from earth in the sense of EN 60079-11.

Reasons for the supplement:

- Change to Directive 2014/34/EU
- Assessment of the overvoltage protector in accordance with the current standard versions. Additionally, the parameters of the overvoltage protector were adjusted.

Listing of all components used referring to older standards:

None

15.3 **Parameters**

15.3.1 Input terminals (X1, X3, X5, X7),  
 Output terminals (X2, X4, X6, X8)  
 for connection of an intrinsically safe circuit with up to 4 wires

Maximum current	$I_i/I_o$		580	mA
Maximum power	$P_i/P_o$		1.3	W
Maximum voltage				
Type MDP-4/D-5-EX	$U_i/U_o$	AC	7	V
		DC	10	V
Type MDP-4/D-24-EX	$U_i/U_o$	AC	20	V
		DC	28	V
Type MDP-4/D-48-EX	$U_i/U_o$	AC	41	V
		DC	58	V
Internal capacitance	$C_i$		negligible	
Internal inductance	$L_i$		negligible	

The input terminals are connected to the output terminals via resistors.

15.3.2 Terminal X9 and mounting rail contact and comb rail contact for connection to PE

15.3.3 Ambient temperature range  $T_a$  -20 °C...+40 °C

**16 Report Number**

BVS PP 11.2194 EU, as of 2016-04-28

**17 Specific Conditions of Use**

17.1 The intrinsically safe circuit is not separated from earth in accordance with EN 60079-11:2012 as the overvoltage protection starts below 500 V.

17.2 The overvoltage protection has to be installed in such a way that electrostatic charging as well as impact and friction hazards are avoided (e.g. by installation into a suitable external enclosure).

**18 Essential Health and Safety Requirements**

The Essential Health and Safety Requirements covered by the standards listed under item 9.

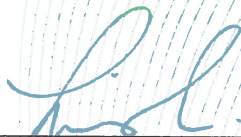
**19 Drawings and Documents**

Drawings and documents are listed in the confidential report.

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We confirm the correctness of the translation from the German original.  
In the case of arbitration only the German wording shall be valid and binding.

DEKRA EXAM GmbH  
Bochum, dated 2016-04-28  
BVS-Le/Nu A 20150963



Certifier



Approver