Certificate of Conformity

(1)

(2) Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres – **Directive 2014/34/EU**

(3) Certificate Number:

EPS 19 ATEX 1 160 X **Revision 0**

(4) Equipment: Thermoelectric Cooler MVTEC-Ex150EH

(5) Manufacturer: Delvalle Global Solutions, S.L.U.

(6) Address: Paseo el Prao 6
01320 Oyón
Spain

(7) This equipment and any acceptable variation thereto are specified in the schedule to this Certificate of Conformity and the documents therein referred to.

(8) Bureau Veritas Consumer Products Services Germany GmbH certifies based on a voluntary assessment that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II of the Directive 2014/34/EU. The examination and test results are recorded in the confidential documentation under the reference number 19TH0196.

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

EN 60079-0:2012 + A11:2013 **EN 60079-7:2015/A1:2018**

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This Certificate of Conformity relates only to the design and the construction of the specified equipment in accordance with Directive 2014/34/EU. Further requirements of this Directive apply to the manufacture and supply of this equipment. Those requirements are not covered by this certificate.

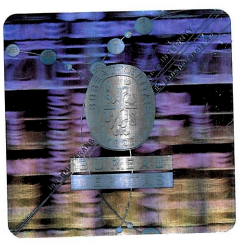
(12) The marking of the equipment shall include the following:

Ex II 3G Ex ec IIB T4 Gc Ex II 3G Ex ec IIC T4 Gc

ZERTIFIZIERUNGSSTELLE BUREAU VERITAS 1828 Bureau Veritas CPS Germany GmbH

Certification department of explosion protection

H. Schaffer



Hamburg, 2020-09-04

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(13) # Annexe

(14) **Certificate of Conformity EPS 19 ATEX 1 160 X** **Revision 0**

(15) Description of equipment:

The Peltier cooler is developed for cooling of small Ex-certified enclosures and electronic cases, in potentially explosive atmospheres. The reinforced stainless-steel housing and the sealed fan on the outside allows use in zone 2 areas with gas group IIB or IIC respectively.

Electrical data:

24 V dc / 7.2 A / 173 W

(16) Reference number: 19TH0196

(17) Schedule of Limitations:

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

For application according to specifications in hazardous areas with explosive gas atmospheres the thermoelectric cooler has to be mounted according to the manufacturers instruction to an Ex-certified enclosure providing at least IP-grade IP54.

For the application in areas exposed to explosive hazards the thermoelectric cooler is only allowed to be operated in conjunction with an electrically grounded enclosure. The electrical contact between the metal body of the thermoelectric cooler and the enclosure ground has to be verified prior to initial operation.

Measures have to be taken, external to the thermoelectric cooler, to provide a transient protection that ensures that the rated voltage is not exceeded by more than 40 %.

The thermoelectric cooler has to be installed in an environment with pollution degree 2 or less, according to EN 60664-1.

(18) Essential health and safety requirements:

Met by standards.

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Certification department of explosion protection Hamburg, 2020-09-04

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