

EU-TYPE EXAMINATION CERTIFICATE



Equipment or Protective System intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

- [1] EU-Type Examination Certificate Number: **DEMKO 19 ATEX 2101X Rev. 3**
- [2] Product: **Call Point Switch, models GNECP7-PT-S / PM-S / PB-S / PT-D / PM-D / PB-D / BG-S / BG-D / PT-I / PM-I / PB-I / BG-I / PT-IR / PM-IR / PB-IR / BG-IR**
- [3] Manufacturer: **European Safety Systems Ltd.**
- [4] Address: **Impress House, Mansell Road, Acton, London W3 7QH United Kingdom**
- [5] This product and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.
- [6] UL International Demko A/S, notified body number 0539 in accordance with Article 17 of the 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 confidential report no. **DK/ULD/ExTR19.0007/03.**

- [7] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

**EN IEC 60079-0:2018
EN 60079-31:2014**

**EN 60079-1:2014
IEC 60079-31, 3rd Edition (2022-01)**

EN 60079-11:2012

Where additional criteria beyond those given here have been used, they are listed at item 18 in the Schedule.

- [8] If the sign "X" is placed after the certificate number, it indicates that the product is subject to the "Specific Conditions of Use" listed under item 17 of this certificate.
- [9] This EU-Type Examination Certificate relates only to the technical design of the specified product in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by the certificate.
- [10] The marking of the product shall include the following (marking is provided in the Schedule as a part of item 15, if applicable):

II 2 G Ex db IIC T6...T4 Gb

II 2 D Ex tb IIIC T80°C...T100°C Db

II 1 G Ex ia IIC T6 Ga (models GNECP7-**-I)

II 1 G Ex ia IIC T4 Ga (models GNECP7-**-IR)

Certification Manager
Thomas Wilson

This is to certify that the sample(s) of the Product described herein ("Certified Product") has been investigated and found in compliance with the Standard(s) indicated on this Certificate, in accordance with the ATEX Product Certification Program Requirements. This certificate and test results obtained apply only to the product sample(s) submitted by the Manufacturer. 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 or other surveillance of the product. The Manufacturer is solely and fully responsible for conformity of all product to all applicable Standards, specifications, requirements or Directives. The test results may not be used, in whole or in part, in any other document without UL's prior written approval.

Date of issue: 2019-04-30

Re-issued: 2023-12-19

Notified Body

UL International Demko A/S, Borupvang 5A, 2750 Ballerup, Denmark
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[13]

[14]

Schedule

EU-TYPE EXAMINATION CERTIFICATE No.

DEMKO 19 ATEX 2101X Rev. 3

[15] Description of Product

The GNEx CP7 series Call Points are made from GRP material and provide Ex db and Ex tb types of protection. There are four variants, Break Glass, Push Button, Momentary Push Button and Push Button & Tool Reset. All models have a flanged flamepath for the cover and a cylindrical flamepath for the operating rods. All variants have three M20 x 1.5p threaded entries, two are located at the top of the base and one is located on the side of the base. The permitted orientations for the equipment are vertical only with the double cable entry uppermost or lowermost only. An indicator LED may be fitted in one of the M20 threaded entries.

Each variant may incorporate single or dual microswitch configurations, DIN rail mounted terminal blocks and PCB terminal. End of line and series monitoring resistors or diodes may be fitted when supplied at 24 or 48 Vdc.

The GNExCP7-xx-I and GNExCP7-xx-IR series Call Points are as described above and provide Ex ia type of protection when used with suitable Zener Barrier or Galvanic Isolators. Terminal blocks are either DIN rail mounted or PCB mounted. End of line and series monitoring resistors or diodes may be fitted in the factory or by the installer/end-user. There is also an option for an LED module to be fitted. All components are considered as a single intrinsically safe circuit.

Product Nomenclature:

Ex db & Ex tb Product Nomenclature:

GNEx	CP7-	PB-	S	-L
I	II	III	IV	V

- I – Enclosure Series
 - GNEx – Primary Enclosure Series
- II – Certifications
 - CP7- - Call Point 7
- III – Type of Enclosure
 - BG- - Break Glass
 - PB- - Push Button
 - PM- - Momentary Push Button
 - PT- - Push Button & Tool Reset
- IV – Switch configuration Width of Enclosure
 - S - Single microswitch
 - D - Dual microswitch
- V – LED option
 - Blank – No LED
 - C – LED, without resistor
 - L – LED, with resistor

Ex ia Product Nomenclature:

GNEx	CP7-	PB-	I
I	II	III	IV

- I – Enclosure Series
 - GNEx – Primary Enclosure Series
- II – Certifications
 - CP7- - Call Point 7
- III – Type of Enclosure
 - BG- - Break Glass
 - PB- - Push Button
 - PM- - Momentary Push Button
 - PT- - Push Button & Tool Reset
- IV – Product Version
 - I – Intrinsically Safe Version with Single or Double Switch with no EOL or Series Devices
 - IR - Intrinsically Safe Version with Single or Double Switch with optional EOL Series devices including optional LED module.

The optical radiation output of the product with respect to explosion protection, according to Annex II clause 1.3.1 of the Directive 2014/34/EU is covered in this certificate based on Exception 1) to the scope of EN 60079-28:2015.



[13]

[14]

Schedule

EU-TYPE EXAMINATION CERTIFICATE No.

DEMKO 19 ATEX 2101X Rev. 3

Temperature range:

The relation between ambient temperature and the assigned temperature class for Ex db, Ex tb and Ex ia models is as follows:

Model	Maximum Ambient (-55°C to xx°C)				
	Gas				Dust
	50°C	+60°C	+65°C	+70°C	+70°C
GNExCP7-PB-S	-	-	T6	T5	T85°C
GNExCP7-PB-S-L	-	-	T6	T5	T85°C
GNExCP7-PB-S-C	-	-	T6	T5	T85°C
GNExCP7-PB-D	-	T6	-	T5	T90°C
GNExCP7-PB-D-L	T6	-	T5	T4	T100°C
GNExCP7-PB-D-C	T6	-	T5	T4	T100°C
GNExCP7-PB-I	-	-	-	T6	-
GNExCP7-PB-IR	-	-	-	T4	-
GNExCP7-PM-S	-	-	T6	T5	T85°C
GNExCP7-PM-S-L	-	-	T6	T5	T85°C
GNExCP7-PM-S-C	-	-	T6	T5	T85°C
GNExCP7-PM-D	-	T6	-	T5	T90°C
GNExCP7-PM-D-L	T6	-	T5	T4	T100°C
GNExCP7-PM-D-C	T6	-	T5	T4	T100°C
GNExCP7-PM-I	-	-	-	T6	-
GNExCP7-PM-IR	-	-	-	T4	-
GNExCP7-PT-S	-	-	T6	T5	T85°C
GNExCP7-PT-S-L	-	-	T6	T5	T85°C
GNExCP7-PT-S-C	-	-	T6	T5	T85°C
GNExCP7-PT-D	-	T6	-	T5	T90°C
GNExCP7-PT-D-L	T6	-	T5	T4	T100°C
GNExCP7-PT-D-C	T6	-	T5	T4	T100°C
GNExCP7-PT-I	-	-	-	T6	-
GNExCP7-PT-IR	-	-	-	T4	-
GNExCP7-BG-S	-	-	-	T6	T80°C
GNExCP7-BG-S-L	-	-	T6	T5	T85°C
GNExCP7-BG-S-C	-	-	T6	T5	T85°C
GNExCP7-BG-D	-	-	T6	T5	T85°C
GNExCP7-BG-D-L	T6	-	T5	T4	T100°C
GNExCP7-BG-D-L	T6	-	T5	T4	T100°C
GNExCP7-BG-I	-	-	-	T6	-
GNExCP7-BG-IR	-	-	-	T4	-

Electrical data:

For Ex db & Ex tb models:

Note: The DC models are limited to maximum 6.224W controlled by the allowable component configuration.

The AC models are limited to 5W by design.

250Vac max / 5.0A max (for units without any series resistor or end of line devices only)

48Vdc max / 1.0A max

24Vdc max / 3.0A max

For Ex ia intrinsic safety models:

U _i	=	30V
I _i	=	500mA
P _i	=	1100mW
C _i	=	0
L _i	=	0

Routine tests:

Routine tests according to EN 60079-1 cl. 16 are not required, as the enclosures have been successfully tested at four times the reference pressure.

[13]

[14]

Schedule EU-TYPE EXAMINATION CERTIFICATE No. DEMKO 19 ATEX 2101X Rev. 3

[16]

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.

[17]

Specific conditions of use:

For Ex db & Ex tb models:

- No repair to the flameproof joints is permitted
- The equipment has a maximum capacitance of 6.33pF
- Equipment is permitted to be wall mounted only in the vertical position. The enclosure base is permitted in two mounting positions, with the double cable entry lowermost or uppermost.

For Ex ia Intrinsically Safe models:

- The equipment has a maximum capacitance of 6.33pF
- Equipment is permitted to be wall mounted only in the vertical position. The enclosure base is permitted in two mounting positions, with the double cable entry lowermost or uppermost.
- The equipment does not provide 500V isolation between the intrinsically safe circuit and parts which may be earthed. This shall be considered in the end-use application to ensure the possibility of an earth connection will not compromise intrinsic safety. Refer to EN/IEC 60079-14


[18]

Essential Health and Safety Requirements

The Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9.

Additional information



The trademark  will be used as the company identifier on the marking label.

The manufacturer shall inform the notified body concerning all modifications to the technical documentation as described in Annex III to Directive 2014/34/EU of the European Parliament and the Council of 26 February 2014.