

# TYPE EXAMINATION CERTIFICATE



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

[3] Type Examination Certificate Number: **DEMKO 19 ATEX 2324X Rev. 0**

[4] Product: **3/4-Wire HART® Transmitter Power Supply, D6017 Series**

[5] Manufacturer: **G.M. International srl**

[6] Address: **Via G. Mameli, 53-55S, Villasanta, MB, 20852 Italy**

[7] This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

[8] UL International Demko A/S 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 Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014.

The examination and test results are recorded in confidential report no. **4789197562.3.1**

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

**EN IEC 60079-0:2018**

**EN 60079-7: 2015 +A1:2018**

except in respect of those requirements listed at item 18 of the Schedule.

[10] 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 schedule to this certificate.

[11] This Type examination certificate relates only to the design of the specified product, and not to specific items of product subsequently manufactured.

[12] The marking of the product shall include the following:

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

**Certification Manager**  
Jan-Erik Storgaard

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:** 2019-12-20

**Certification Body**

UL International Demko A/S, Borupvang 5A, 2750 Ballerup, Denmark  
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## Schedule

### TYPE EXAMINATION CERTIFICATE No.

**DEMKO 19 ATEX 2324X Rev. 0**

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Description of Product:

The Repeater Power Supply, model D6017, is a high integrity analog input interface suitable for applications requiring SIL 3 level in safety related systems for high risk industries. It provides a fully floating dc supply for energizing 3 & 4 wire 4-20 mA transmitters and repeats the current in floating circuit to drive a load. The circuit allows bi-directional communication signals, for HART® devices.

D6017 module is packaged in a plastic enclosure suitable for installation on EN60715 TH 35 DIN Rail, with or without Power Bus connector, or on Termination Board provided with customer dedicated connection.

D6017 module can be located in non-explosive atmospheres or Zone 2 potentially explosive gas atmospheres.

Electrical connections are accommodated by plug-in removable terminal block or with customer dedicated connector when installed on Termination Board.

Supply voltage can optionally be fed through the Termination Board or by the Power Bus connector installed on DIN Rail.

Nomenclature:

D6017	S	S	-xxx
I	II	III	IV

I – Model designation:

D6017 – 3/4-Wire HART® Transmitter Power Supply

II – No. of Channel:

S – Single channel

III – Output:

S – Source output  
K – Sink output

IV – Configuration – Optional:

xxx – Any alphanumeric character denoting pre-delivery testing or configuration requested by end-user.

Performance testing

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.

Temperature range:

The relation between ambient temperature and the assigned temperature class is as follows:

**Ambient temperature range**

-40 °C to +70 °C

**Temperature class**

T4

Electrical data

Model	Supply voltage (terminals 5-6)	Current consumption	Power consumption	Input	Output
D6017SS	24V dc (SELV) (18-30V dc tolerances)	250 mA	Max. 6.24W	4 to 20mA Terminals 7-8 Max 200mA Terminals 11-12	Source Output 4 to 20mA Terminals 1-2
D6017SK	24V dc (SELV) (18-30V dc tolerances)	250 mA	Max. 6.24W	4 to 20mA Terminals 7-8 Max 200mA Terminals 11-12	Sink Output 4 to 20mA / Max. 30V dc Terminals 1-2

Routine tests:

N/A

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Descriptive Documents

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

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Special Conditions of Use:

- The unit shall be installed in an area of at least pollution degree 2 according to EN 60664-1.
- For hazardous location, the unit shall be installed in a certified Ex enclosure that provides a minimum ingress protection of IP54 in accordance with EN 60079-0.

[18]

Essential Health and Safety Requirements

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

Schedule

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Additional information



The trademark

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