

[1]

# 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 16 ATEX 1685X Rev. 0**

[4]

Product: **DRAGO 6mm Modules - DH11010S, DN21200S, DC52200S, DT45400S, DB64000S, DH11020S, DN21200B, DC52200B, DT45400B, DB64000B, DN25000S, DC52100S, DT45000S, DT45600S, DS75000S, DN25000B, DC52100B, DT45000B, DT45600B, DS75000B, DN21000S, DC52500S, DT45200S, DT45800S, DZU1402, DN21000B, DC52500B, DT45200B, and DT45800B.**

[5]

Manufacturer: **DRAGO Automation GmbH**

[6]

Address: **Waldstrasse 86-90, 13403 Berlin, Germany**

[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. **4787042261**

[9]

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

**EN 60079-0:2012+A11:2013**

**EN 60079-15:2010**

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 nA 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: 2016-05-03**



**Certification Body**

UL International Demko A/S, Borupvang 5A, 2750 Ballerup, Denmark  
Tel. +45 44 85 65 65, [info.dk@ul.com](mailto:info.dk@ul.com), [www.ul.com](http://www.ul.com)

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## Schedule TYPE EXAMINATION CERTIFICATE No. DEMKO 16 ATEX 1685X Rev. 0

[15]

Description of Product:

These devices are open-type 6mm wide DIN rail mounted modules that perform a variety of functions such as isolation, amplification, signal splitting, transmitter, and temperature conversion. Units may be provided with a backplane connection for a DIN rail mounted backplane accessory that allows adjacent modules to be electrically connected. All modules utilize screw type terminations for field wiring.

The optical radiation output of the indicating LEDs on the apparatus with respect to explosion protection, according to Annex II clause 1.3.1 of the Directive 2014/34/EU is covered in this certificate.

Temperature range:

The ambient temperature range is -25°C to +70 °C.

## Electrical data

Model Number	Function	Electrical Ratings
DH11010S	Passive Isolator, 1 channel	Input:20mA Output:20mA
DH11020S	Passive Isolator, 2 channel	Input:20mA Output:20mA
DN25000S	Isolation Amplifier	Power:24VDC, 0.7W Input:10V, 20mA Output:10V, 20mA
DN25000B	Isolation Amplifier	Power:24VDC, 0.7W Input:10V, 20mA Output:10V,20mA
DN21000S	Isolated Amplifier/Splitter	Power:24VDC, 1.4W Input:10V, 20mA Output:10V,20mA
DN21000B	Isolated Amplifier/Splitter	Power:24VDC, 1.4W Input:10V, 20mA Output:10V,20mA
DN21200S	Transmitter Power Supply/Splitter	Power:24VDC, 1.4W Input:20mA Output:20mA
DN21200B	Transmitter Power Supply/Splitter	Power:24VDC, 1.4W Input:20mA Output:20mA
DC52100S	Transmitter Power Supply	Power:24VDC, 1.3W Input:17V, 20mA Output:10V, 20mA
DC52100B	Transmitter Power Supply	Power:24VDC, 1.3W Input:17V, 20mA Output:10V, 20mA
DC52500S	SMART Transmitter Power Supply	Power:24VDC, 1.3W Input:17V, 20mA Output:20mA
DC52500B	SMART Transmitter Power Supply	Power:24VDC, 1.3W Input:17V, 20mA Output:20mA
DC52200S	Transmitter Power Supply	Power:24VDC, 1.3W Input:17V, 20mA Output:10V,20mA
DC52200B	Transmitter Power Supply	Power:24VDC, 1.3W Input:17V, 20mA Output:10V,20mA
DT45000S	Universal Temperature Converter	Power:24VDC, 0.8W Output:10V,20mA
DT45000B	Universal Temperature Converter	Power:24VDC, 0.8W Output:10V,20mA
DT45200S	Pt Temperature Converter	Power:24VDC, 0.8W Output:10V,20mA
DT45200B	Pt Temperature Converter	Power:24VDC, 0.8W Output:10V,20mA
DT45400S	Ni Temperature Converter	Power:24VDC, 0.8W Output:10V,20mA
DT45400B	Ni Temperature Converter	Power:24VDC, 0.8W Output:10V,20mA
DT45600S	KTY Temperature Converter	Power:24VDC, 0.8W Output:10V,20mA
DT45600B	KTY Temperature Converter	Power:24VDC, 0.8W Output:10V,20mA
DT45800S	TC Temperature Converter	Power:24VDC, 0.8W Output:10V,20mA

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[14]

**Schedule**  
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DT45800B	TC Temperature Converter	Power:24VDC, 0.8W Output:10V,20mA
DB64000S	Bipolar Isolation Amplifier	Power:24VDC, 0.8W Input:10V, 20mV Output:10V,20mA
DB64000B	Bipolar Isolation Amplifier	Power:24VDC, 0.8W Input:10V, 20mV Output:10V,20mA
DS75000S	Shunt/mV Isolation Amplifier	Power:24VDC, 0.8W Input:150mV Output:10V,20mA
DS75000B	Shunt/mV Isolation Amplifier	Power:24VDC, 0.8W Input:150mV Output:10V,20mA
DZU1402	Power feed module	Input 24VDC, 3A Output 24VDC, 3A

Installation instructions

Supply wiring temperature ratings shall be 0.5-2.5 mm<sup>2</sup> and 105°C minimum.

Terminals shall be torque down to 0.6 Nm.

Devices with suffix 'B' may be used with the In-Rail-Bus system as long as safety caps are installed on both ends of the bus PCB.

Mounting instructions

Devices shall be mounted on a DIN rail.

Routine tests

None

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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.

[17]

Special Conditions of Use:

- Install the device in a suitable approved housing (with a minimum of IP54 protection) that meets the requirements of EN 60079-15. Housing shall only be accessible with the use of a tool.
- The equipment shall only be used in an area of not more than pollution degree 2, as defined in EN 60664-1.
- Transient protection shall be provided that is set at a level not exceeding 140 % of the peak rated voltage value at the supply terminals to the equipment.

[18]

Essential Health and Safety Requirements

In addition to the Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9, the following are considered relevant to this product, and conformity is demonstrated in the report.



The trademark

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