UL Type Examination Certificate

ATEX Directive 2014/34/EU

Certificate

DEMKO 16 ATEX 1685X
Rev. 1

Issue date
2016-05-03

Re-issued
2026-10-16

This is to acknowledge that

DRAGO Automation GmbH

Waldstrasse 86-90, 13403 Berlin Germany

has had

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

evaluated and meets the requirements of the standards

EN IEC 60079-0:2018
EN IEC 60079-0:2018/A11:2024
EN 60079-7:2015
EN IEC 60079-7:2015/A1:2018
EN 60079-7:2015/A11:2024

Test Report No. **US/UL/ExTR16.0059/01**

Certification Manager
Thomas Wilson

UL International Demko A/S, Borupvang 5A, 2750 Ballerup, Denmark, Tel. +45 44 85 65 65, www.ul.com

This is to certify that the sample(s) of the product described herein ("Certified Product") has been investigated and found in compliance with the above mentioned harmonized Standard(s) per Article 12 of Directive 2014/34/EU of the European Parliament and of the Council relating to equipment and protective systems for use in potentially explosive atmospheres indicated on this Certificate, in accordance with the UL Type Examination Certificate Scheme Requirements.
The responsibilities of manufacturers, their authorized representatives are provided in Articles 6 and 7 of the Directive 2014/34/EU. This remains the responsibility of the manufacturer and authorized representative and is not covered as part of this certificate.
This certificate and test results obtained apply only to the product sample(s) submitted by the Applicant. UL International Demko A/S (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 for inspection or other surveillance of the product. The Certificate Holder is solely and fully responsible for conformity of all products to all applicable Standards, specifications, requirements or Directives/Regulations. The test results may not be used, in whole or in part, in any other document without UL's prior written approval.

© 2013 UL LLC. All rights reserved.

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.

Nomenclature

N/A

Ex marking



II 3 G Ex ec IIC T4 Gc

Temperature range

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

Trademark

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

Ratings

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

© 2013 UL LLC. All rights reserved.
Form-ULID-000258 Issue #: 33.0

This certificate may only be reproduced in its entirety and without any change, schedule included.
Information about previous revisions of this certificate can be requested by contacting info.dk@ul.com

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
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

Routine tests

Dielectric Strength Test in accordance with EN 60079-7 is required during production for all electrically isolated circuits.

Descriptive documents

The scheduled drawings are listed in the report no. provided under item “Test Report No.” on page 1 of this UL Type Examination Certificate.

Specific Conditions of Use

- The equipment shall be installed in an enclosure that provides a minimum ingress protection of IP 54 in accordance with EN IEC 60079-0.
- 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.

Essential Health and Safety Requirements

The Essential Health and Safety Requirements (EHSRs) covered by the standards listed on page 1.

Additional Information

Installation instructions
Supply wiring temperature ratings shall be 0.5-2.5 mm² and 105ºC 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.

© 2013 UL LLC. All rights reserved.
Form-ULID-000258 Issue #: 33.0

This certificate may only be reproduced in its entirety and without any change, schedule included.
Information about previous revisions of this certificate can be requested by contacting info.dk@ul.com