

IBExU Institut für Sicherheitstechnik GmbH
An-Institut der TU Bergakademie Freiberg

[1] **TYPE EXAMINATION CERTIFICATE - Translation**



[2] Equipment
of equipment-groups I and II, equipment-categories M2 and 2 plus 3

[3] Type examination certificate number **IBExU14ATEXB009 X** | Issue 1

[4] Product: **Intercom station**
Types: 6 DAX 005*, 4 DAX 015*, 6 DAX 705*, and 4 DAX 715*

[5] Manufacturer: **INDUSTRONIC GmbH & Co. KG**

[6] Address: **Carl-Jacob-Kolb-Weg 1**
97877 Wertheim
GERMANY

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

[8] IBExU Institut für Sicherheitstechnik GmbH 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 the confidential test report IB-15-4-017.

[9] Compliance with the essential health and safety requirements has been assured by compliance with: EN 60079-0:2012 + A11:2013 und EN 60079-31:2014 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 equipment and not to specific items of equipment subsequently manufactured or supplied.

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

All types  **II 3G Ex nA nC IIC T4 Gc X**
Additionally type 6 DAX ...  **II 3D Ex tc IIIB T100 °C Dc X**
-40 °C ≤ Ta ≤ +55 °C

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By order


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Certificates without signature and stamp are not valid. Certificates may only be duplicated completely and unchanged. In case of dispute, the German text shall prevail.

Freiberg, 2016-07-18

[13] **Schedule**

[14] **Certificate number IBExU14ATEXB009 X | Issue 1**

[15] **Description of product**

The intercom stations of the types 6 DAX 005 * and 6 DAX 705 * are used for communication in hazardous areas of zones 2 and 22, the types 4 DAX 015 * and 4 DAX 715 * only in zone 2. The electrical connection is made via an exchange unit with 48 ... 72 V DC.

Type key

6 DAX – three twin keys or **4 DAX** – dial keypad and two twin keys,

005 or **015** – electronic unit 6 DSA 04

705 or **715** – electronic unit 6 DSA 11

without further details – housing color orange, without additional amplifiers

/RD – housing color red, without booster amplifier

/25 – housing color orange, with booster amplifier 25 DVAX 02

/RD/25 – housing color red, with booster amplifier 25 DVAX 02

Technical data

Ambient temperature: $-40\text{ °C} \leq T_a \leq +55\text{ °C}$

Electrical data

Rated voltage: 48 ... 72 V DC

Rated current: 25 ... 70 mA

Rated current incl. booster amplifier: 85 ... 820 mA

Switching contact: Relay ($U_{\max} = 72\text{ V DC}$, $I < 1\text{ A}$, $P < 30\text{ W}$)

ext. speaker: 100 V speakers for use in explosive atmospheres

[16] **Test Report**

The test results are recorded in the confidential test report IB-16-3-101 of 2016-07-18.

The test documents are part of the test report and they are listed there.

Summary of the test results

The intercom stations fulfil the requirements of explosion protection for electrical equipment of Equipment Group II and Category 3G in type of protection "nA" non-sparking device with a relay as a sealed device according to "nC" for Explosion Group IIC and Temperature Class T4.

Additionally, the types 6 DAX 005* and 6 DAX 705* comply with the requirements of Category 3D in type of protection protection by enclosures "tc" for Explosion Group IIIB, with a maximum surface temperature of 100 ° C.

[17] **Specific conditions of use**

- The stations must not be installed in areas with charged dust particles and must be cleaned with a moist cloth only.
- The housing has only been tested with 4 J for areas with low mechanical hazard.

[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 test report:

none

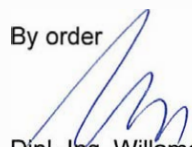
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[19] **Drawings and Documents**

The documents are listed in the test report.

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09599 Freiberg, GERMANY

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Freiberg, 2016-07-18

EU - DECLARATION OF CONFORMITY

The electrical equipment

Digital weatherproof Ex Intercom Stations

6 DAX 705, 6 DAX 705/25
II 3G Ex nA nC IIC T4 Gc X
II 3D Ex tc IIIB T100 °C Dc X

4 DAX 715, 4 DAX 715/25
II 3G Ex nA nC IIC T4 Gc X

has been designed, constructed and manufactured in sole responsibility by

INDUSTRONIC®
Industrie-Electronic GmbH & Co. KG
Carl-Jacob-Kolb-Weg 1
97877 Wertheim / Germany

in compliance with the EU directives

- 2014/30/EU** - Electromagnetic compatibility (EMC)
- 2014/34/EU** - Regulations for equipment and protective systems intended for use in potentially explosive atmosphere

applying the following harmonised standards:

Electrical apparatus for explosive atmospheres

EN 60079-0:2012 + A11:2013, EN 60079-15:2010, EN 60079-31:2014

Electromagnetic compatibility for industrial environments

EN 61000-6-2:2005, EN 61000-6-4:2007 + A1:2011

Safety of information technology equipment

EN 60950-1:2013

The type examination certificate

IBExU14ATEXB009 X

was issued by the following notified body:

IBExU Institut für Sicherheitstechnik GmbH
Fuchsmühlenweg 7
D-09599 Freiberg
Notified Body No. 0637

The technical documentation is available with the manufacturer. Please, pay attention to the Notes on Safety. This declaration certifies the compliance with the mentioned guidelines. It is no assertion of other qualities.

Wertheim, August 2016



Wolfgang Stallmeyer
President