



(1) **EU-TYPE-EXAMINATION CERTIFICATE**
(Translation)

(2) Equipment or Protective Systems Intended for Use in
Potentially Explosive Atmospheres - **Directive 2014/34/EU**

(3) EU-Type Examination Certificate Number:

PTB 19 ATEX 2005 X

Issue: 1

(4) Product: Intercom station, types DX 7x5 and DXE 7x5 or types DX 7x5/25 and DXE 7x5/25

(5) Manufacturer: **INDUSTRONIC® Industrie-Electronic 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) The Physikalisch-Technische Bundesanstalt, notified body No. 0102 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 the confidential Test Report PTB Ex 20-20014.

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

**EN IEC 60079-0:2018, EN 60079-1:2014, EN IEC 60079-7:2015 + A1:2018,
EN 60079-11:2012**

(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 EU-Type Examination Certificate relates only to the design and construction 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 this certificate.


(12) The marking of the product shall include the following:

 **II 2 G Ex db eb ib IIC T4 Gb or Ex db eb ib [ib] IIC T4 Gb**

Konformitätsbewertungsstelle, Sektor Explosionsschutz

Braunschweig, March 19, 2020

On behalf of PTB


Dr.-Ing. F. Lienesch
Direktor und Professor



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EU-Type Examination Certificates without signature and official stamp shall not be valid. The certificates may be circulated only without alteration. Extracts or alterations are subject to approval by the Physikalisch-Technische Bundesanstalt. In case of dispute, the German text shall prevail.

Physikalisch-Technische Bundesanstalt • Bundesallee 100 • 38116 Braunschweig • GERMANY

(13)

SCHEDULE

(14) **EU-Type Examination Certificate Number PTB 19 ATEX 2005 X, Issue: 1**

(15) Description of Product

The intercom station basically consists of the electrical modules supply and interface electronics (1 DEX 03), intrinsically safe control electronics (6 DSX 11 or 6 DSX 11/HS) and an optional keyboard with microcontroller (12 DMW 21) as part of the control electronics. Non-intrinsically safe parts of the circuit are installed in an enclosure designed to type of protection Flameproof Enclosure "d". Optionally, an amplifier (25 DVX 03) can be installed in the flameproof enclosure to supply an external loudspeaker.

Both, the flameproof enclosure and the intrinsically safe control electronics are installed in an installation case.

The intercom station enclosure is manufactured from an electrostatically non-conductive material.

The assignment of the temperature class to the ambient temperature is listed in the table below.

Type	Marking	Ambient temperature
Series DX 705 or DX 715 without amplifier (25 DVX 03), intrinsically safe circuits within the enclosure	Ex db eb ib IIC T4 Gb	-40°C up to +70°C
Series DX 705/25 or DX 715/25 with amplifier (25 DVX 03), intrinsically safe circuits within the enclosure	Ex db eb ib IIC T4 Gb	-40°C up to +55°C
Series DXE 7x5 with intrinsically safe interface or DXE 7x5/25 series with additional amplifier (25 DVX 03) and intrinsically safe interface	Ex db eb ib [ib] IIC T4 Gb	-20°C up to +55°C

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SCHEDULE TO EU-TYPE EXAMINATION CERTIFICATE PTB 19 ATEX 2005 X, Issue: 1

Electrical data

Supply voltage, max. [La(+), Lb(-)] and [+V, -V]	72 V (DC) safety-related maximum voltage $U_m = 90$ V
Floating relay contacts [NO, NO Opt, COM, NC]	direct voltage, $I < 1$ A safety-related maximum voltage $U_m = 90$ V
Additional speaker output [L100, L0]	100 V, 25 W, 150-7000 Hz only for connection to a passive loudspeaker
Listen/talk- and switch interface [Flange socket, plug connector]	type of protection Intrinsic Safety Ex ib IIC; maximum values: $U_o = 7.08$ V $I_o = 207$ mA $P_o = 280$ mW L_i negligibly low $C_i = 1.3$ nF

Maximum values for commonly occurring external reactances (without C_i):
(the following values correspond to the ISpark program 6.2)

IIC	
L_o (mH)	C_o (μ F)
1.0	1.8
0.5	2.1
0.2	2.8

Modifications

The changes relate to the revision of the documentation, replacement of individual components and alternative mounting of a rocker switch with cover.

(16) Test Report PTB Ex 20-20014

(17) Specific conditions of use

The intercom station enclosure consists of an electrostatically non-conductive material. A warning note on the type label points to the risk of electrostatic discharge.

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SCHEDULE TO EU-TYPE EXAMINATION CERTIFICATE PTB 19 ATEX 2005 X, Issue: 1

The intercom station shall only be installed in locations where flowing atmospheres (e.g. caused by technical ventilation) do not need to be reckoned with, i.e. charge generating processes shall be prevented.

The equipment shall only be cleaned by appropriate measures, e.g. using a damp cloth.

The permissible ambient temperature range of the intercom station of type series DXE can be restricted by the use of a separately approved listen/talk-system. The respective ambient temperature range of the separately approved listen/talk-system shall be observed.

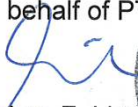
The corresponding torques for the installation of cable glands and enclosure cover must be observed and taken from the operating instructions manual.

(18) Essential health and safety requirements

Met by compliance with the aforementioned standards.

Konformitätsbewertungsstelle, Sektor Explosionsschutz
On behalf of PTB:

Braunschweig, March 19, 2020


Dr.-Ing. F. Lienesch
Direktor und Professor




EU - DECLARATION OF CONFORMITY

The electrical equipment

Digital weatherproof Ex Intercom Stations

2 DX 705, 4 DX 705, 6 DX 705, 0 DX 715, 2 DX 715, 4 DX 715
2 DXE 705, 4 DXE 705, 6 DXE 705, 0 DXE 715, 2 DXE 715, 4 DXE 715

Equipment category  II 2G
Ex db eb ib IIC T4 Gb / Ex db eb ib [ib] IIC T4 Gb

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 gas atmospheres

EN IEC 60079-0:2018, EN 60079-1:2014, EN IEC 60079-7:2015 + A1:2018, EN60079-11:2012

Electromagnetic compatibility for industrial environments

EN61000-6-2:2005, EN61000-6-4:2007 + A1:2011

Safety of information technology equipment

EN60950-1:2013

The EU type examination certificate

PTB 19 ATEX 2005 X

was issued by the following notified body:

Physikalisch-Technische Bundesanstalt (PTB)
Bundesallee 100
38116 Braunschweig / Germany
Notified body No. 0102

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 2019



Wolfgang Stallmeyer
President

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