[1] # EC-TYPE EXAMINATION CERTIFICATE

according to Directive 94/9/EC, Annex III
(Translation)

[2] Equipment and Protectiv Systems intended for use in Potentially Explosive Atmospheres, Directive 94/9/EC

[3] EC-Type Examination Certificate Number: **IBExU05ATEX1069 X**

[4] Equipment: Pressure measuring device type DX4 XXX_NNN

[5] Manufacturer: BD Sensors s.r.o.

[6] Address: Hradistska 817, CZ-687 08 Buchlovice

[7] The equipment mentioned in [4] and any acceptable variation thereto are specified in the schedule to this EC-Type Examination Certificate.

[8] IBExU Institut für Sicherheitstechnik GmbH, NOTIFIED BODY number 0637 in accordance with article 9 of the Council Directive 94/9/EC of 23th March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.
The examination and test results are recorded in test report IB-05-3-029/1 of 13th July 2005.

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN 50014:1997+A1-A2, EN 50020:2002, EN 50284:1999 and EN 50281-1-1:1998+A1.

[10] If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified under [17] in the schedule to this EC-Type Examination Certificate.

[11] This EC-Type Examination Certificate relates only to the design and construction of the specified equipment. If applicable, further requirements of this directive apply to the manufacture and supply of this equipment.

[12] The marking of the equipment mentioned in [4] shall include the following:

Ex II 1G, II 1/2G or II 2G EEx ia IIC/IIB T4
Ex II 1D, II 1/2D or II 2D IP 6X T 85 °C
$-25\ °C \le T_a \le +70\ °C$

The validity of the marking for the type of protection goes by the marking table in test report.

IBExU Institut für Sicherheitstechnik GmbH
Fuchsmühlenweg 7 - D-09599 Freiberg
Tel.: 00493731 3805-0 - Fax: 00493731 23650

Authorised for certifications Explosion protection

Freiberg, 14th July 2005

By order

(Dr. Lösch)

- Seal -
(ID no. 0637)

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

Schedule

[13] **Schedule**

[14] **to the EC-TYPE EXAMINATION CERTIFICATE IBExU05ATEX1069 X**

[15] **Description of equipment**

The equipment series type DX4 XXX_NNN pressure transmitter, screwed probes and immersion probes represent more variously system-unit cover variants the piece. It serves in intrinsic safety electrical plants for the transformation of a pressure signal in a proportional electrical signal.

Category 1 equipment
The sensor of the pressure measuring device may only operate in explosive atmospheres which requires equipment of Category 1, if there are atmospheric conditions (temperature from -20 °C to +60 °C pressure from 0.8 bar to 1.1 bar).

Category 1/2 equipment
The electronics case with the cable connection is installed areas in hazardous areas which require equipment of the Category 2. The process connection elements are built in into the partition wall which separates the areas, in which equipment of Category 2 or 1 are required. The sensor surface is set up in areas which require equipment of the Category 1.

Category 2 equipment
Screwed probes with plastic housings with the smallest, at present practicable measurement range of 60 mbar, may be only used in areas, which require equipment of Category 2. They get the marking 2G.

Ambient temperature range	from -25 °C to +70 °C
Degree of protection:	better IP 66

Supply and signal electric circuit in type of protection Intrinsic Satety EEx ia IIC/IIB

Circuit diagram (XS1 and XS2)	U_i	= 28 V
	I_i	= 93 mA
	P_i	= 660 mW
effective inner capacity	C_i	= 27 nF
effective inner inductivity	L_i	= 5 µH

plus cable inductivities 1 µH/m and cable capacities 100 pF/m

[16] **Test report**
The test results are recorded in detail in the test report IB-05-3-092/1 of 13th July 2005.

Summary of the Test Result:

The Pressure measuring device type DX4 XXX_NNN fulfils the requirements of the type of protection Intrinsic Safety for an electrical apparatus for the Group II, depending on execution Explosion Group IIC or IIB and the Categories 1G, 1/2G or 2G as well as requirements of Dust Explosion Protection.

[17] **Special conditions**

- The equipment designed with connector have to be installed in such a way, that the Degree of protection IP20, respectively IP6X at explosive dust atmosphere, always will be kept.
- At pressure measuring devices with cable protection of corrugated pipe, the ground clamp at the coupling has to be connected with the equipotential bonding.
- The safety and assembly notes contained in the operating instructions have to be observed.
- At screwed probes with the marking category 1/2 equipment, the sensor diaphragm serves as partition wall and has to be protected against mechanical damages.

[18] **Essential Health and Safety Requirements**

Confirmed by norms (see [9]).

By order

Freiberg, 14th July 2005

(Dr. Lösch)

IBExU Institut für Sicherheitstechnik GmbH

An-Institut der TU Bergakademie Freiberg

[1] **1st Addition to**
EC-TYPE EXAMINATION CERTIFICATE IBExU05ATEX1069 X
- Translation -

[2] Equipment: Pressure measuring device type DX4 XXX_NNN

[3] Manufacturer: BD SENSORS s.r.o.

[4] Address: Hradistska 817
687 08 Buchlovice
Czech Republic

[5] **Addition / Alteration**
The additions / alterations of the equipment stated under [2] compared to the equipment already certified comprise of:

a) An shortening of the enclosure at the dive probes of Type DX4 LMK 358, ... LMK 381, ... LMK 382 and ... LMK 457 and the application one an other EMV-Platine,
b) The Pressure measuring device type ... LMK 351 is additional built by in a high-grade steel field housing.
c) In the Pressure measuring device type ... LMK 351 can be used optional the modules ASM 405 and ASM 400.

[6] **Test Report**
The explosion proof protection of the equipment stated under [2] is documented in the Test Report IB-06-3-268 from 20th September 2006. The test documents are component of the Test Report.

[7] **Test result**
IBExU certifies, that the equipment stated under [2] fulfills the in Annex II of the RL 94/9/EC fixed Essential Health and Safety Requirements by accordance with EN 50014:1997+A1+A2, EN 50020:2002 and EN 50281-1-1:1998.

The equipment stated under [2] fulfills the requirements of explosion protection for electrical equipment in type of protection Intrinsically safety 'ia', Explosion Group IIC/IIB, Temperature Class T4 respectively in Dust-type of protection by enclosure with a maximum surface temperature of maximum 85 °C for Equipment Group II, Category 1G, 1/2G or 2G respectively 1D, 1/2D or 2D.

The marking of the equipment stated under [2] shall include the following:

Ex II 1G, II 1/2G or II 2G EEx ia IIC/IIB T4
Ex II 1D, II 1/2D or II 2D IP 6X T 85 °C
$-25\ °C \leq T_a \leq +70\ °C$

The validity of the marking for the type of protection goes by the marking table in test report.

This addition is only valid in connection with the EC-Type Examination Certificate IBExU05ATEX1069 X of 14th July 2005.

IBExU Institut für Sicherheitstechnik GmbH
Fuchsmühlenweg 7 - 09599 Freiberg, Germany
☎ +49 (0) 3731 3805-0 - 🖷 +49 (0) 3731 23650

Authorized for certifications
- Explosion protection -

By order
(Dr. Lösch)

Zertifizierungsstelle Explosionsschutz * IBExU Institut für Sicherheitstechnik GmbH * Kenn-Nr. 0637 *
- Seal -
(Identification No. 0637)

Freiberg, 21st September 2006

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

[1] **2nd Addition to**
EC-TYPE EXAMINATION CERTIFICATE IBExU05ATEX1069 X
- Translation -

[2] Equipment: Pressure measuring device type DX4 XXX_NNN

[3] Manufacturer: BD SENSORS s.r.o.

[4] Address: Hradistska 817
687 08 Buchlovice
Czech Republic

[5] **Addition / Alteration**
The additions / alterations of the equipment stated under [2] compared to the equipment already certified comprise in particular:
a) The use of another EMV-board in the dive probe of Type DX4 LMK 457.
b) The increase the inner capacity of dive probe of Type DX4 LMK 457 to C_i = 147 nF.

[6] **Test Report**
The proof of explosion protection of the equipment stated under [2] is documented in the Test Report IB-07-3-332 of 11th December 2007. The test documents are part of the Test Report.

[7] **Test result**
IBExU certifies, that the equipment stated under [2] fulfills the in Annex II of the Directive 94/9/EC fixed Essential Health and Safety Requirements.

The equipment stated under [2] fulfills the requirements of explosion protection for electrical equipment in type of protection Intrinsic safety 'ia', Explosion Group IIC/IIB, Temperature Class T4 respectively in Dust-type of protection Protection by enclosure with a limited surface temperature of maximum 85 °C for Equipment Group II, Category 1G, 1/2G or 2G respectively 1D, 1/2D or 2D.

The marking of the equipment stated under [2] shall include the following:

Ex II 1G, II 1/2G or II 2G EEx ia IIC/IIB T4
Ex II 1D, II 1/2D or II 2D IP 6X T 85 °C
$-25\ °C \leq T_a \leq +70\ °C$

The validity of the marking for the types of protection goes by the marking table in the Test Report.

This addition is only valid in combination with the EC-Type Examination Certificate IBExU05ATEX1069 X of 14th July 2005 and the 1st Addition of 22nd September 2006.

IBExU Institut für Sicherheitstechnik GmbH
Fuchsmühlenweg 7 - 09599 Freiberg, Germany
☎ +49 (0) 3731 3805-0 - 🖷 +49 (0) 3731 23650

Authorized for certifications
- Explosion protection -

By order

(Dr. Lösch)

Zertifizierungsstelle Explosionsschutz * IBExU Institut für Sicherheitstechnik GmbH * Kenn-Nr. 0637 *
- Seal -
(Identification No. 0637)

Freiberg, 11th December 2007

Certificates without signature and seal aren't valid.
Certificates may only be duplicated completely and unchanged.
In case of dispute, the German text shall prevail.

IBExU Institut für Sicherheitstechnik GmbH

An-Institut der TU Bergakademie Freiberg

[1] **3rd Addition to**
EC-TYPE EXAMINATION CERTIFICATE IBExU05ATEX1069 X
according to Directive 94/9/EC, Annex III
- Translation -

[2] Equipment: Pressure measuring device
type DX4 XXX_NNN

[3] Manufacturer: BD SENSORS s.r.o.

[4] Address: Hradistska 817
687 08 Buchlovice
Czech Republic

[5] **Addition / Alteration**
The additions / alterations of the equipment mentioned in [2] compared with the equipment already certified concern in detail:

a) Alternatively use of measuring cell DSK 701 C
b) Alternatively equipping of non safety-relevant parts for example varistors.
c) The equipment fulfils also the requirements of the current standard series EN 60079:2009.

[6] **Test Report**
The proof of the explosion protection of the equipment mentioned in [2] is documented in the Test Report IB-10-3-154 of 10 November 2010. The test documents are part of the Test Report.

[7] **Test result**
IBExU certifies that the equipment mentioned in [2] fulfils the Essential Health and Safety Requirements fixed in Annex II of the Directive 94/9/EC by compliance with EN 60079-0:2009, EN 60079-11:2007, EN 60079-26:2007 und EN 61241-11:2006.

The equipment stated under [2] fulfills the requirements of explosion protection for electrical equipment in type of protection Intrinsic safety 'ia', Explosion Group IIC/IIB, Temperature Class T4 respectively in dust-atmosheres with a surface temperature of maximum 85 °C for Equipment Group II, Category 1G, 1/2G or 2G respectively 1D, 1/2D or 2D.

The marking of the equipment stated under [2] shall include the following:

Ex II 1G, II 1/2G bzw. II 2G Ex ia IIC/IIB T4 Ga, Ga/Gb bzw. Gb
Ex II 1D Ex iaD 20 T 85 °C
$-25\ °C \leq T_a \leq +70\ °C$

The validity of the marking for the types of protection goes by the marking table in the Test Report.

This addition is only valid in combination with the EC-Type Examination Certificate IBExU05ATEX1069 X of 14th July 2005 and there additions.
The safety instructions are unchanged and have to be taken into account furthermore.

IBExU Institut für Sicherheitstechnik GmbH
Fuchsmühlenweg 7 - 09599 Freiberg, Germany
☎ +49 (0) 3731 3805-0 - 🖷 +49 (0) 3731 23650

Authorized for certifications
- Explosion protection -

By order

(Dr. Wagner)

Zertifizierungsstelle Explosionsschutz IBExU Institut für Sicherheitstechnik GmbH * Kenn-Nr. 0637 *
- Seal -
(Identification No. 0637)

Freiberg, 10 November 2010

Certificates without signature and seal aren't valid.
Certificates may only be duplicated completely and unchanged.
In case of dispute, the German text shall prevail.

[1] **4th Addition to**
EC-TYPE EXAMINATION CERTIFICATE IBExU05ATEX1069 X
according to Directive 94/9/EC, Annex III
- Translation -

[2] Equipment: **Pressure measuring device**
type DX4 XXX_NNN

[3] Manufacturer: BD SENSORS s.r.o.

[4] Address: Hradistska 817
687 08 Buchlovice
Czech Republic

[5] **Addition / Alteration**
The additions / alterations of the equipment mentioned in [2] compared with the equipment already certified concern in detail:

a) The pressure transmitter DX4 DMK 351 with the measuring cell DSK 701C fulfils the requirements of Temperature Class T6 at T_a 60 ° C.
b) Extension of some devices to the Explosion Group IIC when using special cable types.
c) The equipment fulfils also the requirements of the current standard series EN 60079.

[6] **Test Report**
The proof of the explosion protection of the equipment mentioned in [2] is documented in the Test Report IB-14-3-269 of 14 January 2015. The test documents are part of the Test Report.

[7] **Test result**
IBExU certifies that the equipment mentioned in [2] fulfils the Essential Health and Safety Requirements fixed in Annex II of the Directive 94/9/EC by compliance with EN 60079-0:2012+A11:2013, EN 60079-11:2012 and EN 60079-26:2007.

The equipment stated under [2] fulfils the requirements of explosion protection for electrical equipment in type of protection Intrinsic safety 'ia', Explosion Group IIC/IIB, Temperature Class T6/T4 as well as in dust-atmospheres with a surface temperature of maximum 85 °C for Equipment Group II, Category 1G, 1/2G or 2G as well as 1D, 1/2D or 2D.

The marking of the equipment stated under [2] shall include the following:

⟨Ex⟩ II 1G, II 1/2G or II 2G Ex ia IIC/IIB T6/T4 Ga, Ga/Gb or Gb
⟨Ex⟩ II 1D Ex ia IIIC T 85 °C Da
-25 °C ≤ T_a ≤ +60 °C/ +70 °C

The validity of the marking for the types of protection goes by the marking table in the Test Report.

This addition is only valid in combination with the EC-Type Examination Certificate IBExU05ATEX1069 X of 14th July 2005 and their additions.
The safety instructions are unchanged and have to be taken into account furthermore.

IBExU Institut für Sicherheitstechnik GmbH
Fuchsmühlenweg 7 - 09599 Freiberg, Germany
☎ +49 (0) 3731 3805-0 - 🖷 +49 (0) 3731 23650

Freiberg, 14 January 2015

Authorized for certifications
- Explosion protection -

By order

(Dr. Wagner)

Zertifizierungsstelle Explosionsschutz IBExU Institut für Sicherheitstechnik GmbH * Kenn-Nr. 0637 *

- Seal -
(Identification No. 0637)

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

[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 **IBExU05ATEX1069 X** | Issue 1

Product: **Pressure transmitter**
Type: DX4-XXX_NNN

[4] Manufacturer: BD SENSORS s.r.o.

[5] Address: Hradistska 817
687 08 Buchlovice
CZECH REPUBLIC

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

[7] IBExU Institut für Sicherheitstechnik GmbH, Notified Body number 0637 in accordance with Article 17 of 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 IB-21-3-0092.

[8] Compliance with the essential health and safety requirements has been assured by compliance with:
EN IEC 60079-0:2018 and EN 60079-11:2012
except in respect of those requirements listed at item [18] of the schedule.

[9] 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.

[10] This EU-type examination certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

[11] The marking of the product shall include the one of the following depending on the used components:

Metallic enclosure	**Ⓔx II 1G Ex ia IIC or IIB T6 or T4 Ga**
	Ⓔx II 1D Ex ia IIIC T110°C Da
Non-metallic enclosure	**Ⓔx II 1/2G Ex ia IIC T4 Ga/Gb**
	Ⓔx II 1/2D Ex ia IIIC T110°C Da/Db

The assignment is made according to the table of the type range in the schedule.

IBExU Institut für Sicherheitstechnik GmbH
Fuchsmühlenweg 7
09599 Freiberg, GERMANY

Tel: + 49 (0) 37 31 / 38 05 0
Fax: + 49 (0) 37 31 / 38 05 10

By order

Dipl.-Ing. Willamowski

- Seal -
(Notified Body number 0637)

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

Freiberg, 2021-09-21

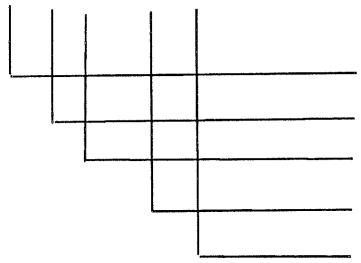
[12] **Schedule**

[13] **Certificate number IBExU05ATEX1069 X** | Issue 1

[14] **Description of product**
The equipment series type DX4-XXX_NNN pressure transmitter, screwed probes and immersion probes represent more variously system-unit cover variants the piece. It serves in intrinsic safety electrical plants for the transformation of a pressure signal in a proportional electrical signal.

Type code:

DX4- X M K nnn I



D - pressure measurement devices; L – level sonde
M - transmitter
K - ceramic cell
nnn - design
I - precision; P - process pressure port

Type extent:

Device	Connection	Type	Marking Gas EX	Marking Dust EX	Enclosure
LMK 351 (i)	Plug	ES	II 1G Ex ia IIC T4 Ga	II 1D Ex ia IIIC T110°C Da	Stainless steel
LMK 351 (i)	Cable	ES	II 1G Ex ia IIC T4 Ga	II 1D Ex ia IIIC T110°C Da	Stainless steel
LMK 351 (i)	Plug	ES	II 1/2G Ex ia IIC T4 Ga/Gb	II 1/2D Ex ia IIIC T110°C Da/Db	PVC
LMK 351 (i)	Cable	ES	II 1/2G Ex ia IIC T4 Ga/Gb	II 1/2D Ex ia IIIC T110°C Da/Db	PVC
LMK 351 (i)	Plug	ES	II 1/2G Ex ia IIC T4 Ga/Gb	II 1/2D Ex ia IIIC T110°C Da/Db	PVDF
LMK 351 (i)	Cable	ES	II 1/2G Ex ia IIC T4 Ga/Gb	II 1/2D Ex ia IIIC T110°C Da/Db	PVDF
LMK 351 (i)	Plug	ES	II 1G Ex ia IIC T6 Ga	II 1D Ex ia IIIC T110°C Da	Stainless steel
LMK 351 (i)	Cable	ES	II 1G Ex ia IIC T6 Ga	II 1D Ex ia IIIC T110°C Da	Stainless steel
DMK 351 (i)	Plug	DMU	II 1G Ex ia IIC T4 Ga	II 1D Ex ia IIIC T110°C Da	Stainless steel
DMK 351 (i)	Cable	DMU	II 1G Ex ia IIC T4 Ga	II 1D Ex ia IIIC T110°C Da	Stainless steel
DMK 351 (i)	Plug	DMU	II 1G Ex ia IIC T6 Ga	II 1D Ex ia IIIC T110°C Da	Stainless steel
DMK 351 (i)	Cable	DMU	II 1G Ex ia IIC T6 Ga	II 1D Ex ia IIIC T110°C Da	Stainless steel
DMK 351P (i)	Plug	DMU	II 1G Ex ia IIC T4 Ga	II 1D Ex ia IIIC T110°C Da	Stainless steel
DMK 351P (i)	Cable	DMU	II 1G Ex ia IIC T4 Ga	II 1D Ex ia IIIC T110°C Da	Stainless steel
LMK358 (i) separable	Cable	TS	II 1G Ex ia IIB T4 Ga	II 1D Ex ia IIIC T110°C Da	Stainless steel
LMK 358 (i)	KR, KW	TS	II 1G Ex ia IIC T4 Ga	II 1D Ex ia IIIC T110°C Da	Stainless steel CuNiFe
LMK 381 (i)	Cable	TS	II 1G Ex ia IIB T4 Ga	II 1D Ex ia IIIC T110°C Da	Stainless steel
LMK 381 (i)	KR, KW	TS	II 1G Ex ia IIC T4 Ga	II 1D Ex ia IIIC T110°C Da	Stainless steel CuNiFe
LMK 382 (i)	Cable	TS	II 1G Ex ia IIB T4 Ga	II 1D Ex ia IIIC T110°C Da	Stainless steel

Device	Connection	Type	Marking Gas EX	Marking Dust EX	Enclosure
LMK 382 (i)	KR, KW	TS	II 1G Ex ia IIC T4 Ga	II 1D Ex ia IIIC T110°C Da	Stainless steel CuNiFe
LMK457 (i) separable	Cable	TS	II 1G Ex ia IIB T4 Ga	II 1D Ex ia IIIC T110°C Da	Stainless steel
LMK 457 (i)	Cable	TS	II 1G Ex ia IIB T4 Ga	II 1D Ex ia IIIC T110°C Da	Stainless steel CuNiFe
LMK 457 (i)	KR, KW	TS	II 1G Ex ia IIC T4 Ga	II 1D Ex ia IIIC T110°C Da	Stainless steel CuNiFe

Notes
The column "Connection":
KR ..... Cable + pipe extension, KW ..... Cable + corrugated pipe
The column "Type":
DMU ... pressure transmitter, ES ..... Screw-in probe, TS ..... Immersion probe

Technical Data
Ambient temperature range:
Standard version: from -25 ° C to +70 ° C
from -25 ° C to +60 ° C (T6 for LMK 351 and DMK 351)

Electrical Data
Supply electric circuit in type of protection Intrinsic Safety Ex ia IIC
(+ and -) U_i 28 V DC
I_i 93 mA
P_i 660 mW
effective inner capacity C_i 14 nF
effective inner inductivity L_i negligible
plus line inductivities 1.5 µH/m and line capacities 220 pF/m (cable supplied by the manufacturer)

For all types except *457*, the supply connections have an internal capacity of max. 27 nF to the housing.

The effective internal capacitance is increased to type *457* with cable output C_i = 74.8 nF and with ISO 4400 C_i = 53 nF. The supply connections of these devices have an internal capacity of max. 90 nF to the housing.

Pt100 circuit in type of protection intrinsic safety Ex ia IIC
U_i 30 V DC
I_i 54 mA
P_i 405 mW
Effective internal capacitance C_i negligible
Effective internal inductance L_i negligible
plus line inductances 1.5 µH/m and line capacitances 220 pF/m (cable supplied by the manufacturer)

Variations compared to the previous editions of this certificate:

Variation 1
Extension of the approval to include variants with Pt100 temperature sensor

Variation 2
Adaptation to the current standards and corresponding modification of the marking

Variation 3
Use of other EMC boards

[15] **Test report**

The test results are recorded in the confidential test report IB-21-3-0092 of 2021-09-13.
The test documents are part of the test report and they are listed there.

Summary of the test results
The highest-pressure transmitters DX4-XXX_NNN fulfil the requirements of type of protection Intrinsic safety ‚ia' on an electrical device for Equipment Group II, depending on version Explosion Group IIC or IIB and Category 1G, 1/2G or, 1D or 2D.

[16] **Specific conditions of use**

- The equipment designed with connector has to be installed in such a way that the degree of protection IP20 is always kept.
- The safety and assembly instructions contained in the operating instruction and the ambient temperature range -25 °C ≤ T_a ≤ +70 °C or at the types LMK 351 and DMK 351 -25 °C ≤ T_a ≤ +60 °C for T6 marking have to be taken into account.
- The device may be operated in explosive atmospheres which require equipment of Category 1 only when there are atmospheric conditions (temperature of -20 °C to +60 °C, pressure of 0.8 bar to 1.1 bar).

[17] **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

[18] **Drawings and Documents**
The documents are listed in the test report.

IBExU Institut für Sicherheitstechnik GmbH
Fuchsmühlenweg 7
09599 Freiberg, GERMANY

By order

Dipl.-Ing. Willamowski

Freiberg, 2021-09-21