

IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:

IECEx SEV 20.0009X

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Certificate history:

Status:

Current

Issue No: 3

Issue 2 (2022-06-14) Issue 1 (2020-08-03) Issue 0 (2020-07-03)

Date of Issue:

2023-09-15

Applicant:

Endress+Hauser SE+Co. KG

Hauptstraße 1 79689 Maulburg Germany

Equipment:

Pressure transmitter Cerabar Differential pressure transmitter Deltabar, Type: PMP51B, PMP71B, PMD55B,

PMD75B, PMD78B, PMC51B, PMC71B

Optional accessory:

Type of Protection:

ec, ia

Marking:

Refer to marking at description of product



Approved for issue on behalf of the IECEx Certification Body:

Position:

Signature: (for printed version)

(for printed version)

Munira Gamma

Manager Product Certification

D-Gamaa

2023-09-15

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Certificate issued by:

Eurofins Electric & Electronic Product Testing AG Luppmenstrasse 3 8320 FEHRALTORF . Switzerland



E&E



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ACCREDITATION

Manufacturer:

Endress+Hauser SE+Co. KG

Hauptstraße 1 79689 Maulburg Germany

Manufacturing locations:

This equipment may be

manufactured at any Endress +

Hauser facility,

listed on the current QAR DE/TUN/

QAR06.0003/09,

that has been audited for the

manufacture of the type of product and Ex protection listed on this certificate.

Germany

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS:

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017

Explosive atmospheres - Part 0: Equipment - General requirements

Edition:7.0 IEC 60079-11:2023

Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"

Edition:7.0

IEC 60079-26:2021

Edition:4.0

tecti Explosive atmospheres - Part 26: Equipment with Separation Elements or combined Levels of Protection

IEC 60079-7:2017

Edition:5.1

Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

60079-40:2015

Explosive atmospheres - Part 40: Requirements for process sealing between flammable process fluids

Edition:1.0 IEC TS

Explosive atmospheres - Part 47: Equipment protection by 2-wire intrinsically safe Ethernet concept (2-WISE)

60079-47:2021 Edition:1.0

> This Certificate does not indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Reports:

CH/SEV/ExTR19.0044/05 NL/DEK/ExTR23.0022/00

CH/SEV/ExTR20.0002/01

CH/SEV/ExTR20.0012/02

Quality Assessment Report:

DE/TUN/QAR06.0003/10



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Pressure transmitter Cerabar

Differential pressure transmitter Deltabar

Types: PMP51B, PMP71B, PMD55B, PMD75B, PMD78B, PMC51B, PMC71B

Rating:

Type of protection ia:

For MA10: 4..20 mA (HART):

Ui ≤ 30 V DC, Ii ≤ 300 mA, Pi ≤ 1 W, Ci ≤ 10 nF, Li = 0

For MA11: Profibus PA, Foundation Fieldbus:

FISCO : UI \leq 17,5 V DC, II \leq 380 mA, PI \leq 5,32 W, CI \leq 5 nF, LI = 0 Entity : UI \leq 24 V DC, II \leq 300 mA, PI \leq 1,2 W, CI \leq 5 nF, LI = 0

For MA12: Ethernet APL:

2-WISE: UI \leq 17,5 V DC, II \leq 380 mA, PI \leq 5,32 W, CI \leq 5 nF, LI = 0 Entity : UI \leq 17,5 V DC, II \leq 300 mA, PI \leq 1,2 W, CI \leq 5 nF, LI = 0

For MA13: 4..20 mA HART + 4..20 mA:

Channel 1, 4..20 mA HART: UI \leq 30 V DC, II \leq 300 mA, PI \leq 1 W, CI \leq 10 nF, LI = 0 Channel 2, 4..20 mA: UI \leq 30 V DC, II \leq 300 mA, PI \leq 1 W, CI \leq 10 nF, LI = 0

For MA14: 4..20 mA HART + switch:

Channel 1, 4..20 mA HART: UI \leq 30 V DC, II \leq 300 mA, PI \leq 1 W, CI \leq 10 nF, LI = 0 Channel 2, switch output: UI \leq 30 V DC, II \leq 300 mA, PI \leq 1 W, CI \leq 10 nF, LI = 0

Type of protection ec: For MA10: 4..20 mA (HART): U ≤ 35 V DC, P ≤ 1 W

For MA11: Profibus PA, Foundation Fieldbus : U ≤ 32 V DC P ≤ 0.7 W

For MA12: Ethernet APL: U ≤ 15 V DC P ≤ 0.7 W

For MA13: 4..20 mA HART + 4..20 mA: $U \le 35$ V DC P ≤ 1 W

For MA14: 4..20 mA HART + switch output: $U \le 35 \text{ V DC P} \le 1 \text{ W}$

Classification of installation and use:

Fixed

Ingress protection:

IP 66 / IP67 / IP68

Rated ambient temperature range (°C):

Refer to Temperature classification at general product

information for details.

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. For EPL Ga enclosures made of aluminium must be installed protected from impact and friction.

2. To avoid electrostatic charging: Do not rub surfaces with a dry cloth.





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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Addition of following:

- 2-channel electronic (4..20mA HART + 4..20 mA) MA13
- 2-channel electronic (4..20 mA HART + switch output) MA14
- two channel terminals
- standard updates IEC 60079-11: 2023, IEC 60079-26: 2021
- plastic enclosure HP07 removal of gas/dust, dust/gas options
- reference IEC TS 60079-40: 2015, single seal test
- minor corrections

Annex:

IECEx 20.0009X Annexe Issue3.pdf





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Applicant Name:

Endress+Hauser SE+Co. KG

Hauptstrasse 1, 79689 Maulburg, GERMANY

Electrical Apparatus:

Pressure transmitter Cerabar

Differential pressure transmitter Deltabar

Temperature classification for intrinsic safety gas application:

Cerabar PMP51B, PMP71B (sensor SP11B)

Process conne	ection type	Enclosure type and ele	ctronic insert			
Compact, flanges		a) Al and casted SS enclosure; MA10, MA11, MA12	b) 2-chamber Al and casted SS enclosure; MA13, MA14	c) plastic enclosure; MA10, MA11, MA12		
Temperature class	Process temperature	MA10, MA11 ambient Ta min: -50°C 1) MA12 ambient Tamin : -40°C		Ambient Tamin: -20°C		
	Tp max (°C)	,	Ambient temperature Ta ma	ax (°C)		
	80	45	40	Not suitable		
T6	70	50	45	40		
	60	50	45	45		
	125	50	45	Not suitable		
T4	100	55	50	45		
T4	80	60	55	45		
	70	65	55	50		
Process conne	ection type	Enclosure type and electronic insert				
High temperature		a) Al and casted SS enclosure; MA10, MA11, MA12	b) 2-chamber Al and casted SS enclosure; MA13, MA14	c) plastic enclosure; MA10, MA11, MA12		
Temperature class	Process temperature	MA12 ambie	bient Ta min: -50°C ¹⁾ ent Tamin : -40°C	Ambient Tamin: -20°C		
	Tp max (°C)		Ambient temperature Ta max			
T6	80	60	55	45		
T4	130	70	60	55		
T3	190	60	60	50		
T2	290	60	55	45		
T1	300	60	55	45		
T1	400	55	50	Not suitable		

Process connection type Temperature decoupled, capillary remote		Enclosure type and ele	ctronic insert	10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	
		a) Al and casted SS enclosure; MA10, MA11, MA12 b) 2-chamber Al and casted SS enclosure; MA13, MA14		c) plastic enclosure; MA10, MA11, MA12	
Temperature class	Process temperature	MA10, MA11 ambient Ta min: -50°C ²⁾ MA12 ambient Tamin : -40°C Ambient temperature Ta ma		Ambient Tamin: -20°C	
Tp max (°C)			ix (°C)		
T6	80	60	55	60	
T4	130	70	60	70	
Т3	190	70	60	70	
T2	290	70	60	70	
T1	400	70	60	70	

Typmax: process connection with temperature decoupling are suitable for higher process temperatures; Ta values must be fulfilled for device enclosure and sensor element

Tpmin: Minimum process temperature same as Tamin; process connection with temperature decoupling are suitable for lower temperatures; Ta values must be fulfilled for device enclosure and sensor element

²⁾ Tamin: for metal housings: for versions with low temperature potting possible lower ambient temperature decreases to -52°C (order code option 580 = "JN"); functional limitations (e.g. by fill oil) are obvious and must be considered.



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Cerabar PMC51B, PMC71B (sensor SP13B)

Process connection type Compact, flanges		Enclosure type and electronic insert				
		a) Al and casted SS enclosure; MA10, MA11, MA12	b) 2-chamber Al and casted SS enclosure; MA13, MA14	c) plastic enclosure; MA10, MA11, MA12		
Temperature Process		Ambient *	Ta min: -40°C	Ambient Tamin: -20°C		
class	temperature 1) Tp max (°C)			ax (°C)		
T6	80	45	40	Not suitable		
10	40	50	45	40		
	125	50	40	Not suitable		
T4	100	55	50	THE RESIDENCE OF THE PARTY OF T		
T/	100	00	00	Not suitable		
T4	80	60	50	Not suitable 40		

Process conne	ection type	Enclosure type and electronic insert		
High temperature		a) Al and casted SS enclosure; MA10, MA11, MA12	b) 2-chamber Al and casted SS enclosure; MA13, MA14	c) plastic enclosure; MA10, MA11, MA12
Temperature class	Process temperature 1) Tp max (°C)	Ambient Ta min: -40°C Ambient Tamin: Ambient temperature Ta max		Ambient Tamin: -20°C
T6	80	50	45	Not suitable
T6	60	50	45	40
man of the same of	1.00	50	40	
T3T1	150	50	40	Not suitable
T3T1	150 125	55	50	Not suitable Not suitable

¹⁾ Minimum process temperature Tpmin is limited to -40°C due to functional reasons

Deltabar PMD55B, PMD75B (sensor SP12B)

Process connection type Compact		Enclosure type and electronic insert				
		a) Al and casted SS enclosure; MA10, MA11, MA12	b) 2-chamber Al and casted SS enclosure; MA13, MA14	c) plastic enclosure; MA10, MA11, MA12		
Temperature Process class temperature		MA10, MA11 ambient Ta min: -50°C ²⁾ MA12 ambient Tamin : -40°C		Ambient Tamin: -20°C		
1)	Tp max (°C)	Ambient temperature Ta max				
	80	45	40	Not suitable		
T6	70	45	45	Not suitable		
130000	60	45	45	40		
26.6	60	65	55	55		
T4	85	60	50	45		
	100	60	50	45		

¹⁾ process temperature at membrane

²⁾ Tamin : for metal housings: for versions with low temperature potting possible lower ambient temperature decreases to -52°C (order code option 580 = "JN"); functional limitations (e.g. by fill oil) are obvious and must be considered



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Deltabar PMD78B (sensor SP12B)

Process connection type High temperature, temperature decoupled, capillary remote		Enclosure type and electronic insert				
		a) Al and casted SS enclosure; MA10, MA11, MA12 b) 2-chamber Al and casted SS enclosure; MA13, MA14		c) plastic enclosure; MA10, MA11, MA12		
Temperature class Process temperature 1) Tp max (°C)		MA10, MA11 ambient Ta min: -50°C 1) Ambient Ta MA12 ambient Tamin : -40°C Ambient temperature Ta max (°C)		Ambient Tamin: -20°C		
				ax (°C)		
T 6	80	50	55	40		
T4	130	70	60	70 70		
T3	190	70	60	70		
T2	290	70	60	70		
T1	400	70	60	70		

¹⁾ Tpmax: process connection with temperature decoupling are suitable for higher process temperatures; Ta values must be fulfilled for device enclosure and sensor element

Separated housing; valid for all sensor modules

Process connection type All types		Enclosure type and electronic insert			
		d) all enclosures; MA10, MA11, MA12	d) 2-chamber Al and casted SS enclosure; MA13, MA14		
Temperature Process		Ambient Tamin : -20°C			
class	temperature ¹⁾ Tp max (°C)	Ambient ten	perature Ta max (°C)		
T6	80	60	55		
T4	100	60	55		

¹⁾Tpmin: Minimum process temperature same as Ta min

²⁾ Tamin: for metal housings: for versions with low temperature potting possible lower ambient temperature decreases to

hin.ch SCESO -52°C (order code option 580 = "JN"); functional limitations (e.g. by fill oil) are obvious and must be considered Tpmin: Minimum process temperature same as Ta min; process connection with temperature decoupling are suitable for lower temperatures; Ta values must be fulfilled for device enclosure and sensor element



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Temperature classification for intrinsic safety dust application:

Cerabar PMP51B, PMP71B (sensor SP11B)

Process conne	ection type	Enclosure type and electron	ic insert	
Compact, flan	ges	a) Al and casted SS enclosure; MA10, MA11, MA12	nd casted SS b) 2-chamber Al and casted	
Max. surface temperature 1) EPL Da and EPL Db	Process temperature 2) Tp max (°C)	MA10, MA11 ambient Ta min: -50°C ²⁾ MA12 ambient Tamin : -40°C Ambient temperature Ta max (°C)		DITAN
part	125	50	45	"(
	100	55	50	
T125°C	80	60	55	
	70	65	55	

ction type	Enclosure type and electron	ic insert	100
ecoupled	a) Al and casted SS enclosure; MA10, MA11, MA12 b) 2-chamber Al and casted SS enclosure; MA13, MA14		Bar
Process temperature			8
Tp max (°C)	Ambient temperature Ta max (°C)		150
130	70	60	- C- /
190	60	60	i.ch
290	60	55	1.01.
300	60	55	
400	55	50	
	Process temperature 2) Tp max (°C) 130 190 290 300	a) Al and casted SS enclosure; MA10, MA11, MA12 Process temperature 2)	a) Al and casted SS enclosure; MA10, MA11, MA12 Process temperature 2) Tp max (°C) 130 70 190 60 190 60 290 60 55 300 a) Al and casted SS enclosure; MA13, MA14 SS enclosure; MA15, MA14 SS enclo

Process connection type Capillary remote		Enclosure type and electronic insert		
		a) Al and casted SS enclosure; MA10, MA11, MA12	b) 2-chamber Al and casted SS enclosure; MA13, MA14	
Max. surface temperature 1) EPL Da and EPL Db part	Process temperature 2) Tp max (°C)	MA10, MA11 ambient Ta min: -50°C ²⁾ MA12 ambient Tamin: -40°C Ambient temperature Ta max (°C)		
	130	70	70	
	190	70	70	
T125°C	290	70	70	
	300	70	70	
	400	70	70	



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Cerabar PMC51B, PMC71B:

Process conne	ection type	Enclosure type and electron	ic insert	
Compact, flanges		a) Al and casted SS enclosure; MA10, MA11, MA12	b) 2-chamber Al and casted SS enclosure; MA13, MA14	
Max. surface Process		MA10, MA11, MA	12 ambient Ta min: -40°C	
temperature 1) EPL Da and EPL Db part	temperature 2) Tp max (°C)	Ambient temperature Ta max (°C)		DITA
	125	50	45	-114
T40500	100	55	50	- /
T135°C	80	60	55	
	60	60	55	

Process connection type Temperature decoupled		Enclosure type and electronic insert		
		a) Al and casted SS enclosure; MA10, MA11, MA12	b) 2-chamber Al and casted SS enclosure; MA13, MA14	
Max. surface temperature 1) EPL Da and EPL Db part	Process temperature Tp max (°C)	201 12 97 (1972)	12 ambient Ta min: -40°C perature Ta max (°C)	
<u> </u>	150	50	45	
T150°C	125	55	50	
	100	60	50	

¹⁾ the surface temperature only depends on the applied process temperature. The influence of self-heating to the process side is < 2K and negligible. Functional limitations depend on the process connection and are provided by the manufacturer documentation.

Deltabar PMD55B, PMD75B (sensor SP12B)

Process connection type		Enclosure type and electronic insert	
Compact		a) Al and casted SS enclosure; MA10, MA11, MA12	b) 2-chamber Al and casted SS enclosure; MA13, MA14
Max. surface Process		MA10, MA11, MA12 ambient Ta min: -40°C	
temperature 1) EPL Da and EPL Db	temperature 2) Tp max (°C)		
part		Ambient temperature Ta max (°C)	
T100°C	60	65	60
	85	60	55
	100	60	55

²⁾ Minimum process temperature Tpmin is limited to -40°C due to functional reasons



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Deltabar PMD78B (sensor SP12B)

Process conne	ction type	Enclosure type and electron	ic insert	
Temperature of capillary remote		a) Al and casted SS enclosure; MA10, MA11, MA12	sure; MA10, MA11, enclosure; MA13, MA14	
Max. surface Process		MA10, MA11, M	A12 ambient Ta min: -40°C	
temperature 1) EPL Da and EPL Db part	temperature 2) Tp max (°C)	Ambient temperature Ta max (°C)		IT.
	130	70	70	IAT.
T100°C	190	70	70	1/0
T100°C	290	70	70	
	400	70	70	

¹⁾ the surface temperature only depends on the applied process temperature. The self-heating is < 2K and negligible. Functional limitations depend on the process connection and are provided by the manufacturer documentation. The marked surface temperature considers all direct heat influences from process heat and self-heating at the apparatus housing. Surface temperatures at process side, e.g. at high temperature process connections at FMD78B maybe higher and must be considered by the user. T marking is based on the process temperature of the compact designs.</p>
2) the lower ambient and process temperature decreases to -50°C (order code option 580 = "JL"), when suitable sealing's relevant for the dust tightness of the enclosure as listed in IECEXTR NL/KIWA/EXTR19.0026/xx are used. Tpmin: Minimum process temperature same as Ta min; process connection with temperature decoupling are suitable for lower temperatures; Ta values must be fulfilled for device enclosure and sensor element



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Temperature classification for increased safety

Cerabar PMP51B, PMP71B (sensor SP11B)

Process conne	ection type	Enclosure type and electronic insert		
Compact, flanç	ges	a) Al and casted SS enclosure; MA10, MA11, MA12	sure; MA10, MA11, SS enclosure; MA13, MA14	
Temperature Process		MA10, MA11 a	imbient Ta min: -40°C	
class	temperature 1) Tp max (°C)	Ambient temp	Ambient temperature Ta max (°C)	
T6	80	55	50	
10	60	65	50	
	125	50	45	
T4	100	55	50	
	80	65	55	

Process conne	ection type	Enclosure type and electron	nic insert	
High temperat	ure	a) Al and casted SS enclosure; MA10, MA11, MA12	b) 2-chamber Al and casted SS enclosure; MA13, MA14	TIV.
Temperature	iture Process MA10, MA11 ambient Ta min: -40°C			
class	temperature 1) Tp max (°C)	Ambient temperature Ta max (°C)		1
T6	80	65	60	
T4	130	70	55	CO.
T3	190	60 55		ch -
T2	290	60	50	
	300	60	50	
T1		55 45		

Process connection type Temperature decoupled, capillary remote		Enclosure type and electronic insert		
		a) Al and casted SS enclosure; MA10, MA11, MA12	b) 2-chamber Al and casted SS enclosure; MA13, MA14	
Temperature Process		MA10, MA11 ambient Ta min: -40°C		
class	temperature 1) Tp max (°C)	Ambient temperature Ta max (°C)		
T6	80	70	65	
T4	130	70	65	
T3	190	70	65	
T2	290	70	65	
T1	400	70	65	

¹⁾ Tpmax: process connection with temperature decoupling are suitable for higher process temperatures; Ta values must be fulfilled for device enclosure and sensor element.

Tpmin: Minimum process temperature same as Ta min; process connection with temperature decoupling are suitable for lower temperatures; Ta values must be fulfilled for device enclosure and sensor element



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Cerabar PMC51B, PMC71B (sensor SP13B)

Process connection type Compact, flanges		Enclosure type and electronic insert		
		a) Al and casted SS enclosure; MA10, MA11, MA12	b) 2-chamber Al and casted SS enclosure; MA13, MA14	
Temperature	Process	A DESCRIPTION OF THE STREET OF		
class	temperature 1) Tp max (°C)			
T6	80	55	45	
	125	50	40	
T4	100	55	50	
	80	60	50	

Process connection type		Enclosure type and electronic insert	
High temperature		a) Al and casted SS enclosure; MA10, MA11, MA12	b) 2-chamber Al and casted SS enclosure; MA13, MA14
Temperature Process		MA10, MA11 ambient Ta min: -40°C	
class	temperature	Ambient temperature Ta max (°C)	
	Tp max (°C)		
T6	80	60	45
T4	125	55	50
T3	150	50 40	

Deltabar PMD55B, PMD75B (sensor SP12B)

Process conne	ection type	Enclosure type and electron	ic insert
Compact, flanges		a) Al and casted SS enclosure; MA10, MA11, MA12	b) 2-chamber Al and casted SS enclosure; MA13, MA14
Temperature	Process	MA10, MA11 ambient Ta min: -40°C Ambient temperature Ta max (°C)	
class	temperature 1) Tp max (°C)		
Т6	80	55	50
Τ4	100	60	50
T4	85	60	55



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DITATION

Deltabar PMD78B (sensor SP12B)

Process connection type High temperature, capillary remote		Enclosure type and electronic insert		
		a) Al and casted SS enclosure; MA10, MA11, MA12	b) 2-chamber Al and casted SS enclosure; MA13, MA14	
Temperature	Process	MA10, MA11 ambient Ta min: -40°C Ambient temperature Ta max (°C)		
class	temperature 1) Tp max (°C)			
T6	80	70	65	
T4	130	70	70	
T3	190	70	70	
T2	290	70	70	
T1	300	70	70	
T1	400	70	70	

¹⁾ the lower ambient and process temperature decreases to -50°C (order code option 580 = "JL"), when suitable sealing's relevant for the tightness of the enclosure as listed in IECExTR NL/KIWA/ExTR19.0026/xx are used.

For PMD78B high process temperatures are possible. The suitability is depending on the 5CE50 temperature decoupling of the process connection and the used fill oil. Versions with temperature isolator reduces the temperature influence from process side, while the heat conduction at capillary connections is negligible (selection at model code option i=95; see dwg

The lower temperature is limited to -40°C due to functional reasons. admin.ch



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Marking:

The following marking strings are possible for all types and in combination with each other.

Ex ia IIC T6...T1 Ga

Ex ia IIC T6...T1 Gb

Ex ia IIC T6...T1 Ga/Gb

Ex ec IIC T6...T1 Gc

Type:PMC51B, PMP51B, PMD55B, PMD75B, PMD78B, PMC71B, PMP71B Ex ia IIIC T₂₀₀ xxx °C Da/Db (for temperature see table below)

Type:PMC51B, PMP51B, PMD55B, PMD75B, PMD78B, PMC71B, PMP71B Ex ia IIIC T_L xxx °C Db (for temperature see table below)

PMP51B, PMP71B	125 °C
PMC51B, PMC71B compact	135 °C
PMC51B, PMC71B high temp.	150 °C
PMD55B, PMD75B, PMD78B	100 °C