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 DEK 22.0037X**

Certificate history:

Status: **Current**

Issue No: 0

Date of Issue: 2022-09-13

Applicant: **Endress+Hauser SE+Co. KG**
Hauptstraße 1
79689 Maulburg
Germany

Equipment: **Pressure Transmitters types Cerabar PMP51B, PMC51B, PMP71B and PMC71B and Differential Pressure Transmitters types Deltabar PMD55B, PMD75B and PMD78B**

Optional accessory:

Type of Protection: **Ex d, Ex i, Ex t**

Marking:

Ex db IIC T6...T1 Gb
Ex db ia IIC T6...T1 Ga/Gb or Gb
Ex ta/tb IIIC T_{200} xxx °C Da/Db
Ex tb IIIC T_L xxx °C Db
Ex tc IIIC Txxx °C Dc

Approved for issue on behalf of the IECEx Certification Body: **R. Schuller**

Position: **Certification Manager**

Signature: (for printed version)

Date: (for printed version) 22-09-13

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.

Certificate issued by:

DEKRA Certification B.V.
Meander 1051
6825 MJ Arnhem
Netherlands

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Certificate No.: **IECEx DEK 22.0037X** Page 2 of 4

Date of issue: 2022-09-13 Issue No: 0

Manufacturer: **Endress+Hauser SE+Co. KG**
Hauptstraße 1
79689 Maulburg
Germany

Manufacturing locations:

Endress+Hauser SE+Co. KG
Hauptstraße 1
79689 Maulburg
Germany

Endress+Hauser (Suzhou) Automation Instrumentation Co. Ltd.
China – Singapore Industrial Park (SIP)
Su-Hong-Zhong-Lu, No. 491
Jiangsu Province, 215021 Suzhou
China

Endress+Hauser (Brasil) Instrumentação e Aut.Ltda.
Estrada Municipal Antonio Sesti
600 Bairro Recreio Costa Verde
Itatiba, SP - 13254-085
Brazil

See following pages for more locations

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 Edition:7.0	Explosive atmospheres - Part 0: Equipment - General requirements
IEC 60079-1:2014-06 Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-11:2011 Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
IEC 60079-26:2014-10 Edition:3.0	Explosive atmospheres – Part 26: Equipment with Equipment Protection Level (EPL) Ga
IEC 60079-31:2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"

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 Report:

NL/DEK/ExTR22.0037/00

Quality Assessment Report:

DE/TUN/QAR06.0003/09

IECEx Certificate of Conformity

EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

Pressure Transmitters types Cerabar PMP51B, PMC51B, PMP71B, PMC71B and Differential Pressure Transmitters types Deltabar PMD55B, PMD75B and PMD78B for use in explosive atmospheres caused by the presence of combustible gases, fluids, vapours or dusts, are used to convert an over-, under- or differential pressure into a 4-20 mA or Profinet APL or Profibus PA or Foundation Fieldbus output signal.

The enclosure is either a single electronics compartment version made of aluminium or a dual compartment version made of aluminium or stainless steel, providing a separate electronics and a terminal compartment. The stainless steel pressure sensor is directly fitted to the enclosure.

Optionally the electronics compartment can be equipped with a display module with or without Bluetooth in combination with a windowed cover.

The degree of protection of the equipment is IP64 in accordance with IEC 60079-0. The degree of protection of the equipment is IP66/IP68 (1.83 m during 24 h) in accordance with IEC 60529.

For the Type designation, Thermal data and Electrical data refer to Annex 1.

SPECIFIC CONDITIONS OF USE: YES as shown below:
- For maximum surface temperature, ambient temperature range and maximum process temperatures see Annex 1 and safety instructions.

- The flameproof joints are not intended to be repaired.

- The pressure transmitters shall be installed and maintained such that hazards caused by electrostatic discharge are excluded.

IECEx Certificate of Conformity

Certificate No.: **IECEx DEK 22.0037X**

Date of issue: 2022-09-13

Additional manufacturing locations:

Endress+Hauser (USA)
Automation Instrumentation Inc.
2340 Endress Place
Greenwood, Indiana 46143
United States of America

Endress+Hauser Yamanashi Co., Ltd
862-1 Mitsukunugi Sakaigawa-cho
Fuefuki-shi Yamanashi Pref. 406-0846
Japan

Endress+Hauser (India) Automation Instrumentation Pvt. Ltd.
M-192, Waluj MIDC, Aurangabad - 431 136
Maharashtra State
India

Annex:

226682600-Annex1 to ExTR22.0037.00.pdf

Type designation

PMP71B-aa bb c d e f g h ii k ll mmm n o + pp qq rr ss tt uu vv ww xx yy zz αα ββ γγ		
aa=10		**Approval:**
	*F	ATEX/IEC II 2G Ex db IIC T6 Gb
	*G	ATEX/IEC II 1/2D, 2D Ex ta/tb IIIC Da/Db, Db
	*L	ATEX/IEC II 3G Ex ec IIC T6 Gc, II 3D Ex tc IIIC Dc
	*N	ATEX/IEC II 1/2G,2G Ex ia IIC T6 Ga/Gb, II 2G Ex db IIC T6 Gb, II 1/2D, 2D Ex ta/tb IIIC Da/Db
bb=20		**Output:**
	AA	2-wire 4-20mA
	BA	2-wire 4-20mA HART
	DA	Profibus PA
	FA	2-wire, PROFINET (APL)
c=30		**Not relevant for the type of protection**
d=40		**Housing; Material:**
	B	Single compartment; Alu, coated
	J	Dual compartment; Alu, coated
	K	Dual compartment; 316L
	M	Dual compartment L-shape; Alu, coated
	N	Dual compartment L-shape; 316L
	Y	Modification of one of the above mentioned options: customer specific color or painting; changes not relevant for explosion protection
e=50		**Electrical Connection:**
	B	Gland M20, brass nickel plated, IP66/68 NEMA Type 4X/6P
	C	Gland M20, 316L, IP66/68,NEMA Type 4X/6P
	F	Thread M20, IP66/68 NEMA Type 4X/6P
	G	Thread G1/2, IP66/68 NEMA Type 4X/6P
	H	Thread NPT1/2, IP66/68 NEMA Type 4X/6P
	S	*Cable 5m, IP66/68 NEMA Type 4X/6P, atmospheric pressure compensation via cable
	Y	Modification of one of the above mentioned options: Assembled with third party certified cable gland or blanking element, other cable length; changes not relevant for explosion protection
f to γγ		**Not relevant for the type of protection**

PMC51B-aa b c d e f gg h ii kkk l + mm nn oo pp qq rr ss tt uu vv ww xx		
aa=10		**Approval:**
	*C	ATEX/IEC II 1/2G Ex db [ia] IIC T6 Ga/Gb
	*F	ATEX/IEC II 2G Ex db ia IIC T6 Gb
	*G	ATEX/IEC II 1/2D, 2D Ex ta/tb IIIC Da/Db Db
	*L	ATEX/IEC II 3G Ex ec IIC T6 Gc, II 3D Ex tc IIIC Dc
	*O	ATEX/IEC II 1/2G,2G Ex ia IIC T6 Ga/Gb, II 2G Ex db IIC T6 Gb, II 1/2D, 2D Ex ia IIIC Da/Db
bb=20		**Output:**
	AA	2-wire 4-20mA
	BA	2-wire 4-20mA HART
	DA	Profibus PA
	FA	2-wire, PROFINET (APL)
c=30		**Not relevant for the type of protection**
d=40		**Housing; Material:**
	B	Single compartment; Alu, coated
	J	Dual compartment; Alu, coated
	K	Dual compartment; 316L
	M	Dual compartment, L-shape, Alu, coated
	N	Dual compartment L-shape; 316L
	Y	Modification of one of the above mentioned options: customer specific color or painting; changes not relevant for explosion protection
e=50		**Electrical Connection:**
	B	Gland M20, brass nickel plated, IP66/68 NEMA Type 4X/6P
	C	Gland M20, 316L, IP66/68,NEMA Type 4X/6P
	F	Thread M20, IP66/68 NEMA Type 4X/6P
	G	Thread G1/2, IP66/68 NEMA Type 4X/6P
	H	Thread NPT1/2, IP66/68 NEMA Type 4X/6P
	S	*Cable 5m, IP66/68 NEMA Type 4X/6P, atmospheric pressure compensation via cable
	Y	Modification of one of the above mentioned options: Assembled with third party certified cable gland or blanking element; changes not relevant for explosion protection
f to xx		**Not relevant for the type of protection**

PMC71B-aa bb c d e f g hh i kk lll m + nn oo pp qq rr ss tt uu vv ww xx yy zz		
aa=10		**Approval:**
	*C	ATEX/IEC II 1/2G Ex db [ia] IIC T6 Ga/Gb
	*F	ATEX/IEC II 2G Ex db ia IIC T6 Gb
	*G	ATEX/IEC II 1/2D, 2D Ex ta/tb IIIC Da/Db
	*L	ATEX/IEC II 3G Ex ec IIC T6 Gc, II 3D Ex tc IIIC Dc
	*O	ATEX/IEC II 1/2G, 2G Ex ia IIC T6 Ga/Gb, II 2G Ex db ia IIC T6 Gb, II 1/2D, 2D Ex ia IIIC Da/Db
bb=20		**Output:**
	AA	2-wire 4-20mA
	BA	2-wire 4-20mA HART
	DA	Profibus PA
	FA	2-wire, PROFINET (APL)
c=30		**Not relevant for the type of protection**
d=40		**Housing; Material:**
	B	Single compartment; Alu, coated
	J	Dual compartment; Alu, coated
	K	Dual compartment; 316L
	M	Dual compartment, L-shape, Alu, coated
	N	Dual compartment L-shape; 316L
	Y	Modification of one of the above mentioned options: customer specific color or painting; changes not relevant for explosion protection
e=50		**Electrical Connection:**
	B	Gland M20, brass nickel plated, IP66/68 NEMA Type 4X/6P
	C	Gland M20, 316L, IP66/68,NEMA Type 4X/6P
	F	Thread M20, IP66/68 NEMA Type 4X/6P
	G	Thread G1/2, IP66/68 NEMA Type 4X/6P
	H	Thread NPT1/2, IP66/68 NEMA Type 4X/6P
	S	*Cable 5m, IP66/68 NEMA Type 4X/6P, atmospheric pressure compensation via cable
	Y	Modification of one of the above mentioned options: Assembled with third party certified cable gland or blanking element, other cable length; changes not relevant for explosion protection
F to zz		**Not relevant for the type of protection**

PMD55B-aa bb c d e f gg h i kkk l m n + oo pp qq rr ss tt uu vv ww xx yy zz αα		
aa=10		**Approval:**
	*F	ATEX/IEC II 2G Ex db IIC T6 Gb
	*G	ATEX/IEC II 1/2D, 2D Ex ta/tb IIIC Da/Db, Db
	*L	ATEX/IEC II 3G Ex ec IIC T6 Gc, II 3D Ex tc IIIC Dc
	*N	ATEX/IEC II 1/2G,2G Ex ia IIC T6 Ga/Gb, II 2G Ex db IIC T6 Gb, II 1/2D, 2D Ex ta/tb IIIC Da/Db
bb=20		**Output:**
	AA	2-wire 4-20mA
	BA	2-wire 4-20mA HART
	DA	Profibus PA
	FA	2-wire, PROFINET (APL)
c=30		**Not relevant for the type of protection**
d=40		**Housing; Material:**
	B	Single compartment; Alu, coated
	J	Dual compartment; Alu, coated
	K	Dual compartment; 316L
	M	Dual compartment, L-shape, Alu, coated
	N	Dual compartment L-shape; 316L
	Y	Modification of one of the above mentioned options: customer specific color or painting; changes not relevant for explosion protection
e=50		**Electrical Connection:**
	C	Gland M20, 316L, IP66/68,NEMA Type 4X/6P
	F	Thread M20, IP66/68 NEMA Type 4X/6P
	G	Thread G1/2, IP66/68 NEMA Type 4X/6P
	H	Thread NPT1/2, IP66/68 NEMA Type 4X/6P
	S	*Cable 5m, IP66/68 NEMA Type 4X/6P, atmospheric pressure compensation via cable
	Y	Modification of one of the above mentioned options: Assembled with third party certified cable gland or blanking element, other cable length; changes not relevant for explosion protection
f to αα		**Not relevant for the type of protection**

PMD75B-aa bb c d e f gg h i kkk l m n + oo pp qq rr ss tt uu vv ww xx yy zz αα ββ γγ

aa=10		**Approval:**
	*F	ATEX/IEC II 2G Ex db IIC T6 Gb
	*G	ATEX/IEC II 1/2D, 2D Ex ta/tb IIIC Da/Db, Db
	*L	ATEX/IEC II 3G Ex ec IIC T6 Gc, II 3D Ex tc IIIC Dc
	*N	ATEX/IEC II 1/2G,2G Ex ia IIC T6 Ga/Gb, II 2G Ex db IIC T6 Gb, II 1/2D, 2D Ex ta/tb IIIC Da/Db
bb=20		**Output:**
	AA	2-wire 4-20mA
	BA	2-wire 4-20mA HART
	DA	Profibus PA
	FA	2-wire, PROFINET (APL)
c=30		**Not relevant for the type of protection**
d=40		**Housing; Material:**
	B	Single compartment; Alu, coated
	J	Dual compartment; Alu, coated
	K	Dual compartment; 316L
	M	Dual compartment L-shape; Alu, coated
	N	Dual compartment L-shape; 316L
	Y	Modification of one of the above mentioned options: customer specific color or painting; changes not relevant for explosion protection
e=50		**Electrical Connection:**
	B	Gland M20, brass nickel plated, IP66/68 NEMA Type 4X/6P
	C	Gland M20, 316L, IP66/68,NEMA Type 4X/6P
	F	Thread M20, IP66/68 NEMA Type 4X/6P
	G	Thread G1/2, IP66/68 NEMA Type 4X/6P
	H	Thread NPT1/2, IP66/68 NEMA Type 4X/6P
	S	*Cable 5m, IP66/68 NEMA Type 4X/6P, atmospheric pressure compensation via cable
	Y	Modification of one of the above mentioned options: Assembled with third party certified cable gland or blanking element, other cable length; changes not relevant for explosion protection
f to γγ		**Not relevant for the type of protection**

PMD78B- aa bb c d e f gg h i kkk ll mmm nnn o p q + rr ss tt uu vv ww xx yy zz αα ββ γγ δδ εε		
aa=10		**Approval:**
	*F	ATEX/IEC II 2G Ex db IIC T6 Gb
	*G	ATEX/IEC II 1/2D, 2D Ex ta/tb IIIC Da/Db
	*L	ATEX/IEC II 3G Ex ec IIC T6 Gc, II 3D Ex tc IIIC Dc
	*N	ATEX/IEC II 1/2G,2G Ex ia IIC T6 Ga/Gb, II 2G Ex db IIC T6 Gb, II 1/2D, 2D Ex ta/tb IIIC Da/Db
bb=20		**Output:**
	AA	2-wire 4-20mA
	BA	2-wire 4-20mA HART
	DA	Profibus PA
	FA	2-wire, PROFINET (APL)
c=30		**Not relevant for the type of protection**
d=40		**Housing; Material:**
	B	Single compartment; Alu, coated
	J	Dual compartment; Alu, coated
	K	Dual compartment; 316L
	M	Dual compartment L-shape; Alu, coated
	N	Dual compartment L-shape; 316L
	Y	Modification of one of the above mentioned options: customer specific color or painting; changes not relevant for explosion protection
e=50		**Electrical Connection:**
	B	Gland M20, brass nickel plated, IP66/68 NEMA Type 4X/6P
	C	Gland M20, 316L, IP66/68,NEMA Type 4X/6P
	F	Thread M20, IP66/68 NEMA Type 4X/6P
	G	Thread G1/2, IP66/68 NEMA Type 4X/6P
	H	Thread NPT1/2, IP66/68 NEMA Type 4X/6P
	S	*Cable 5m, IP66/68 NEMA Type 4X/6P, atmospheric pressure compensation via cable
	Y	Modification of one of the above mentioned options: Assembled with third party certified cable gland or blanking element, other cable length; changes not relevant for explosion protection
f to εε		**Not relevant for the type of protection**

PMP51B-aa bb c d e f g h ii k ll mmm n o + pp qq rr ss tt uu vv ww xx yy zz αα ββ		
aa=10		**Approval:**
	*F	ATEX/IEC II 2G Ex db IIC T6 Gb
	*G	ATEX/IEC II 1/2D, 2D Ex ta/tb IIIC Da/Db
	*L	ATEX/IEC II 3G Ex ec IIC T6 Gc, II 3D Ex tc IIIC Dc
	*N	ATEX/IEC II 1/2G,2G Ex ia IIC T6 Ga/Gb, II 2G Ex db IIC T6 Gb, II 1/2D, 2D Ex ta/tb IIIC Da/Db
bb=20		**Output:**
	AA	2-wire 4-20mA
	BA	2-wire 4-20mA HART
	DA	Profibus PA
	FA	2-wire, PROFINET (APL)
c=30		**Not relevant for the type of protection**
d=40		**Housing; Material:**
	B	Single compartment; Alu, coated
	J	Dual compartment; Alu, coated
	K	Dual compartment; 316L
	M	Dual compartment L-shape; Alu, coated
	N	Dual compartment L-shape; 316L
	Y	Modification of one of the above mentioned options: customer specific color or painting; changes not relevant for explosion protection
e=50		**Electrical Connection:**
	B	Gland M20, brass nickel plated, IP66/68 NEMA Type 4X/6P
	C	Gland M20, 316L, IP66/68,NEMA Type 4X/6P
	F	Thread M20, IP66/68 NEMA Type 4X/6P
	G	Thread G1/2, IP66/68 NEMA Type 4X/6P
	H	Thread NPT1/2, IP66/68 NEMA Type 4X/6P
	S	*Cable 5m, IP66/68 NEMA Type 4X/6P, atmospheric pressure compensation via cable
	Y	Modification of one of the above mentioned options: Assembled with third party certified cable gland or blanking element, other cable length; changes not relevant for explosion protection
f to ββ		**Not relevant for the type of protection**

Thermal data for EPL Ga/Gb and Gb

Marking for Cerabar type PMP51B, PMP71B - Ex db IIC T6...T1 Gb

Model	Type	Process connection type	Temperature class	Process temperature range Tp [1)]	Ambient temperature range [1)]
Cerabar	PMP51B PMP71B	compact	T6	-50 °C ≤ Tp ≤ 80 °C	-50 °C ≤ Ta ≤ +60 °C
			T4...T1	-50 °C ≤ Tp ≤ 100 °C	-50 °C ≤ Ta ≤ +60 °C
				-50 °C ≤ Tp ≤ 125 °C	-50 °C ≤ Ta ≤ +50 °C
		temperature decoupling	T6	-50 °C ≤ Tp ≤ 80 °C	-50 °C ≤ Ta ≤ +65 °C
			T4	-50 °C ≤ Tp ≤ 125 °C	-50 °C ≤ Ta ≤ +70 °C
			T3	-50 °C ≤ Tp ≤ 190 °C	-50 °C ≤ Ta ≤ +60 °C
			T2	-50 °C ≤ Tp ≤ 290 °C	-50 °C ≤ Ta ≤ +55 °C
			T1	-50 °C ≤ Tp ≤ 400 °C	-50 °C ≤ Ta ≤ +50 °C
		capillary remote	T6	-50 °C ≤ Tp ≤ 80 °C	-50 °C ≤ Ta ≤ +70 °C
			T4	-50 °C ≤ Tp ≤ 125 °C	
			T3	-50 °C ≤ Tp ≤ 190 °C	
			T2	-50 °C ≤ Tp ≤ 290 °C	
			T1	-50 °C ≤ Tp ≤ 400 °C	

[1)] for versions without window cover lower ambient temperature decreases to -60 °C (ordercode option 580 = “JT”)

Marking for Deltabar type PMD55B, PMD75B, PMD78B - Ex db IIC T6...T1 Gb

Model	Type	Process connection type	Temperature class	Process temperature range Tp [1)]	Ambient temperature range [1)]
Deltabar	PMD55B PMD75B	compact	T6	-50 °C ≤ Tp ≤ 80 °C	-50 °C ≤ Ta ≤ +60 °C
			T4...T1	-50 °C ≤ Tp ≤ 85 °C	-50 °C ≤ Ta ≤ +65 °C
				-50 °C ≤ Tp ≤ 100 °C	-50 °C ≤ Ta ≤ +60 °C
	PMD78B	temperature decoupling capillary remote	T6	-50 °C ≤ Tp ≤ 80 °C	-50 °C ≤ Ta ≤ +60 °C
			T4	-50 °C ≤ Tp ≤ 125 °C	-50 °C ≤ Ta ≤ +70 °C
			T3	-50 °C ≤ Tp ≤ 190 °C	-50 °C ≤ Ta ≤ +70 °C
			T2	-50 °C ≤ Tp ≤ 290 °C	
			T1	-50 °C ≤ Tp ≤ 400 °C	

[1)] for versions without window cover lower ambient temperature decreases to -60 °C (ordercode option 580 = “JT”) ;

Marking for Cerabar type PMC51B, PMC71B - Ex db ia IIC T6...T1 Ga/Gb or Ex db ia IIC T6...T1 Gb

Model	Type	Process connection type	Temperature class	Process temperature range Tp	Ambient temperature range
Cerabar	PMC51B PMC71B	compact sensor	T6	-40 °C ≤ Tp ≤ 80 °C	-40 °C ≤ Ta ≤ +55 °C
			T4	-40 °C ≤ Tp ≤ 100 °C	-40 °C ≤ Ta ≤ +50 °C
			T4...T1	-40 °C ≤ Tp ≤ 125 °C	-40 °C ≤ Ta ≤ +40 °C
		High temperature version	T6	-40 °C ≤ Tp ≤ 80 °C	-40 °C ≤ Ta ≤ +55 °C
			T4	-40 °C ≤ Tp ≤ 125 °C	-40 °C ≤ Ta ≤ +50 °C
			T3...T1	-40 °C ≤ Tp ≤ 150 °C	-40 °C ≤ Ta ≤ +40 °C

Thermal data for EPL Da/Db and Dc

Marking for Cerabar type PMP51B, PMP71B -
Ex ta/tb IIIC T_{200} 125°C Da/Db, Ex tb IIIC T_L 125°C Db, Ex tc IIIC T 125°C Dc

Model	Type	Process connection type	maximum surface temperature EPL Da and EPL Db part	Process temperature range Tp [2]	Ambient temperature range [1] [2]
Cerabar	PMP51B PMP71B	compact	T125 °C	-40 °C ≤ Tp ≤ 125 °C	-40 °C ≤ Ta ≤ +65 °C
		temperature decoupled, capillary remote		-40 °C ≤ Tp ≤ 400 °C	-40 °C ≤ Ta ≤ +70 °C

[1] for housing HS27, HS37 an ambient temperature decrease of 5K must be considered

[2] the lower ambient and process temperature decreases to -50 °C (ordercode option 580 = "JL")

Marking for Cerabar type PMC51B, PMC71B -
Ex ta/tb IIIC T_{200} 125°C Da/Db, Ex tb IIIC T_L 125°C Db, Ex tc IIIC T 125°C Dc or
Ex ta/tb IIIC T_{200} 150°C Da/Db, Ex tb IIIC T_L 150°C Db, Ex tc IIIC T 150°C Dc

Model	Type	Process connection type	maximum surface temperature EPL Da and EPL Db part	Process temperature range Tp	Ambient temperature range [1]
Cerabar	PMC51B PMC71B	compact	T125 °C	-40 °C ≤ Tp ≤ 125 °C	-40 °C ≤ Ta ≤ +65 °C
		high temperature	T150 °C	-40 °C ≤ Tp ≤ 150 °C	-40 °C ≤ Ta ≤ +65 °C

[1] for housing HS27 an ambient temperature decrease of 5K must be considered

Marking for Deltabar type PMD55B, PMD75B, PMD78B -
Ex ta/tb IIIC T_{200} 100°C Da/Db, Ex tb IIIC T_L 100°C Db, Ex tc IIIC T 100°C Dc

Model	Type	Process connection type	maximum surface temperature EPL Da and EPL Db part	Processtemperature range Tp [2]	Ambient temperature range [1] [2]
Deltabar	PMD55B PMD75B	compact	T100 °C	-40 °C ≤ Tp ≤ 100 °C	-40 °C ≤ Ta ≤ +65 °C
	PMD78B	T decoupled, capillary remote	T100 °C	-40 °C ≤ Tp ≤ 400 °C	-40 °C ≤ Ta ≤ +70 °C

[1] for housing HS27 an ambient temperature decrease of 5K must be considered

[2] the lower ambient and process temperature decreases to -50 °C (ordercode option 580 = "JL")

Electrical data

Supply: max. 35 VDC, 1 W, Um = 250 V (only relevant for Ex db ia versions)
Output: 2-wire 4-20 mA or 2-wire 4-20 mA HART

Supply: max. 32 VDC, 0.7 W, Um = 250 V (only relevant for Ex db ia versions)
Output: 2-wire Profibus PA or Foundation Fieldbus

Supply: max. 15 VDC, 0.7 W, Um = 250 V (only relevant for Ex db ia versions)
Output: 2-wire Profinet APL